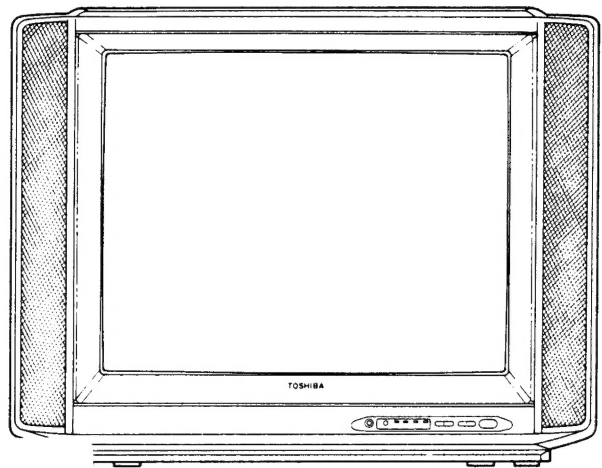


# **TOSHIBA**

COLOUR TELEVISION

# **2505DBT**



## **SPECIFICATIONS**

Input Power Rating:	126 watts, AC 240 volts, 50 Hz
Aerial Input Impedance:	75 ohm unbalanced type for VHF and UHF
Receiving Channels:	PAL I Standard: UHF ..... channels 21 to 68 PAL 50 Hz / 60 Hz (For Video Disk playback) 4.43NTSC (For VCR playback), 3.58NTSC (For VCR playback)
Intermediate Frequencies:	Picture I-F carrier frequency ..... 39.5 MHz Sound I-F carrier frequency ..... 33.5 MHz
Picture Tube:	25 inches, A59KHQ146X01, 590 mm (measured on diagonal of viewable picture area), 110° deflection
Sound Output:	20 watts (at 10% harmonic distortion) x 2
Speakers:	130 x 70 mm 2 pcs, 90 x 60 mm 2 pcs, 80 x 80 mm 2 pcs
Aux. Terminals:	Headphone Jack, 21 pin socket, S-VIDEO/AUDIO socket, External speaker terminal, AUDIO/VIDEO input socket
Cabinet:	Table type
Dimensions:	Height ..... 536 mm Width ..... 710 mm Depth ..... 450 mm
Weight:	30.5 kg

Specifications are subject to change without notice.

## SAFETY INSTRUCTIONS

**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

### X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.5 kV at zero beam current (minimum brightness) operating at 240V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 27.5 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.  
For continued safety, replacement component should only be made after referring the Product Safety Notice below.

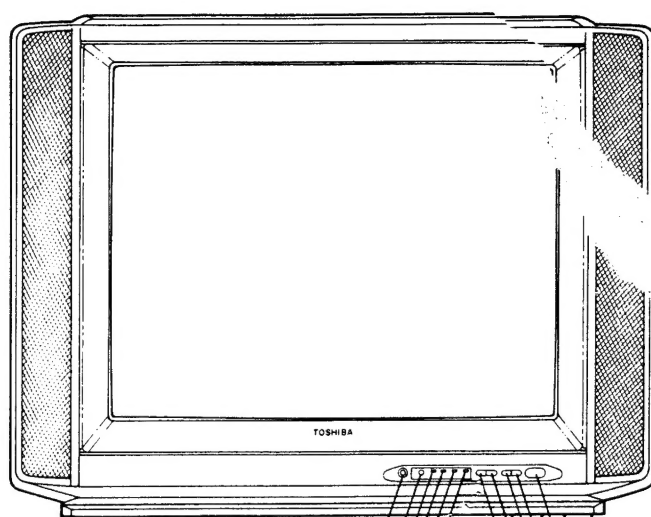
### SAFETY PRECAUTION

1. This receiver has a nominal working E.H.T. voltage of 25.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.  
Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.  
When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap  
The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.  
Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

### PRODUCT SAFETY NOTICE

Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

## FRONT CONTROLS AND REAR VIEWS



HEAD PHONE JACK

REMT EYE

BILINGUAL IND.

STEREO IND.

ON TIMER IND.

POWER IND.

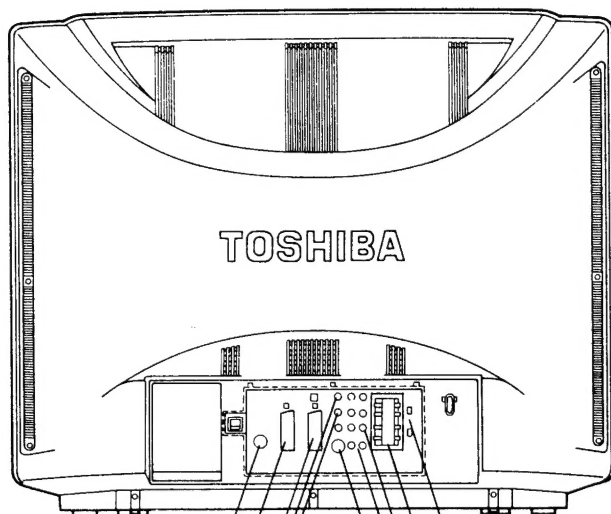
MAIN'S SW.

POSITION UP

POSITION DN

VOL. UP

VOL. DN



AERIAL TERM.

21-pin SOCKET 1

21-pin SOCKET 2  
(S-VIDEO, AV)

TV OUT

MONITOR OUT

EXT SPK. SW

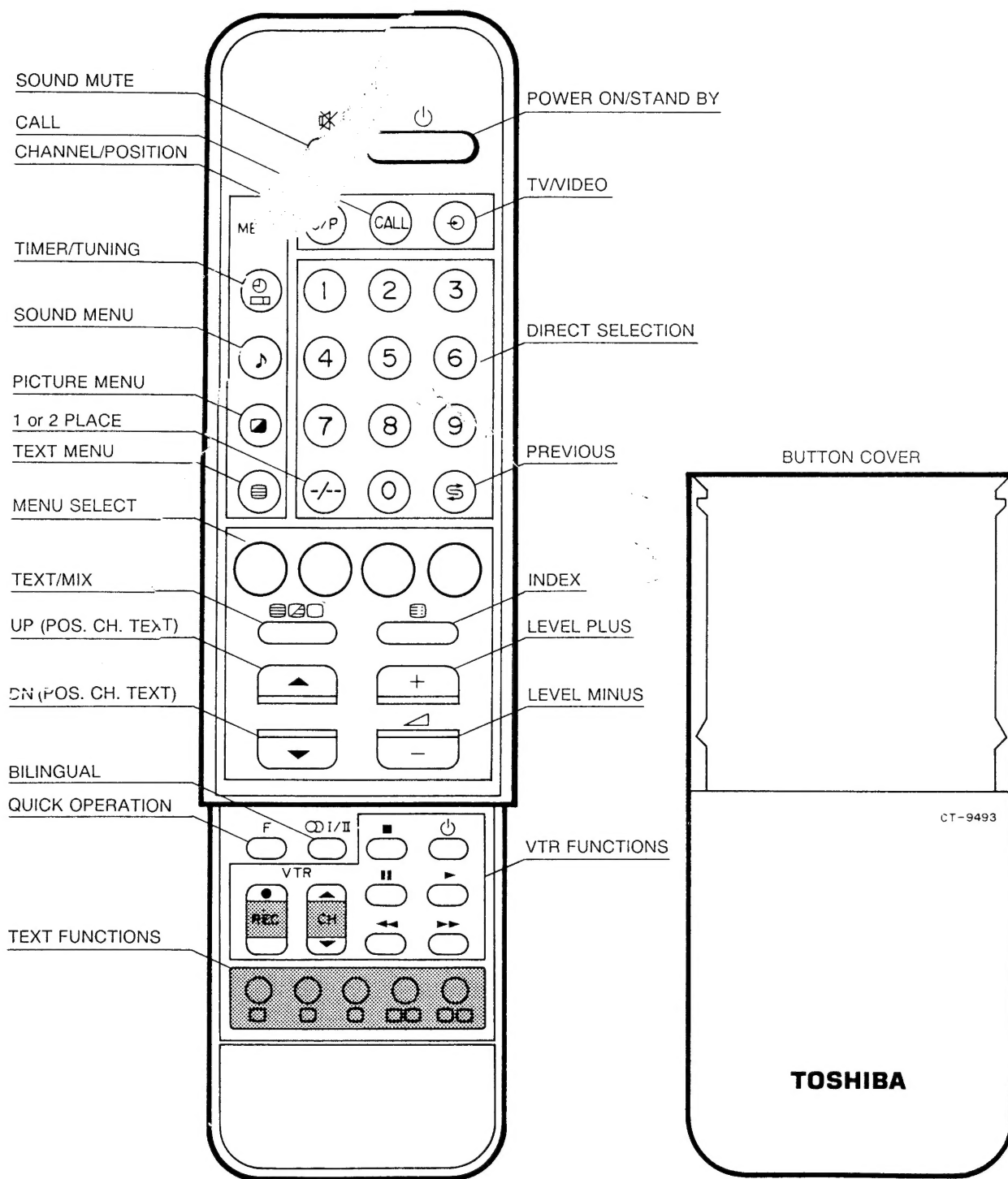
EXT SPK. TERM.

VIDEO 3

VRIAB AUDIO OUT

S-VIDEO TERM

# REMOTE HAND HELD UNIT





**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

## INSTALLATION AND SERVICE ADJUSTMENTS

### GENERAL INFORMATION

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 240 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

### AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least one hour in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source.

### +145 VOLT POWER SUPPLY ADJUSTMENT (R851)

**CAUTION:** +B voltage closely relates to the high voltage. To prevent hazardous X-RAY RADIATION, the +B voltage must be properly adjusted to +145 volts.

1. Tune in an active channel. Adjust the BRIGHTNESS and CONTRAST Controls for normal picture.
2. Check that the AC power line voltage is normal. (AC 240 volts, 50 Hz)
3. Connect a frequency counter to pin 3 and pin 4 (Ground) of Q807.
4. Adjust R852 for 32 kHz reading on the counter.
5. Remove the counter, and short R860 (connector side) to the ground.
6. Connect a digital voltmeter to both leads of C833.
7. Adjust R851 for 145V reading on the meter.
8. Remove the shorting on R860.

### HIGH VOLTAGE CHECK

**CAUTION:** There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 27.5 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 27.5 kV under any conditions.

### FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS.(T461) for well defined scanning lines in the centre area on the screen.

### R-F AGC ADJUSTMENT

1. Turn the set in the strongest station in your area.
2. Turn RF AGC Control (R151) on IF Board to fully counterclockwise position.
3. Adjust RF AGC Control clockwise until noise (snow) just disappears on the screen.

### PAL MATRIX ADJUSTMENT

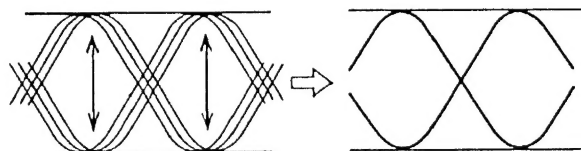
1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

### SIF FM DET ADJUSTMENT (LD05)

1. Apply SIF signal to SIF-IN.
2. Connect millivoltmeter to L-OUT.
3. Set the SG as shown bellow.  
 $f_0 = 6 \text{ MHz}$   
 $\Delta f = 15 \text{ kHz}$   
 $f_m = 1 \text{ kHz}$   
Level : 100 dB $\mu$
4. Adjust LD05 for the maximum reading on the meter.

### MTS EYE OPENING RATE ADJUSTMENT (CG50)

1. Receive a multiplex TV sound signal.
2. Connect the 2-channel oscilloscope to pin 19 and pin 20 of QG03.
3. Adjust CG50 for the maximum of EYE Opening Rate on scope.



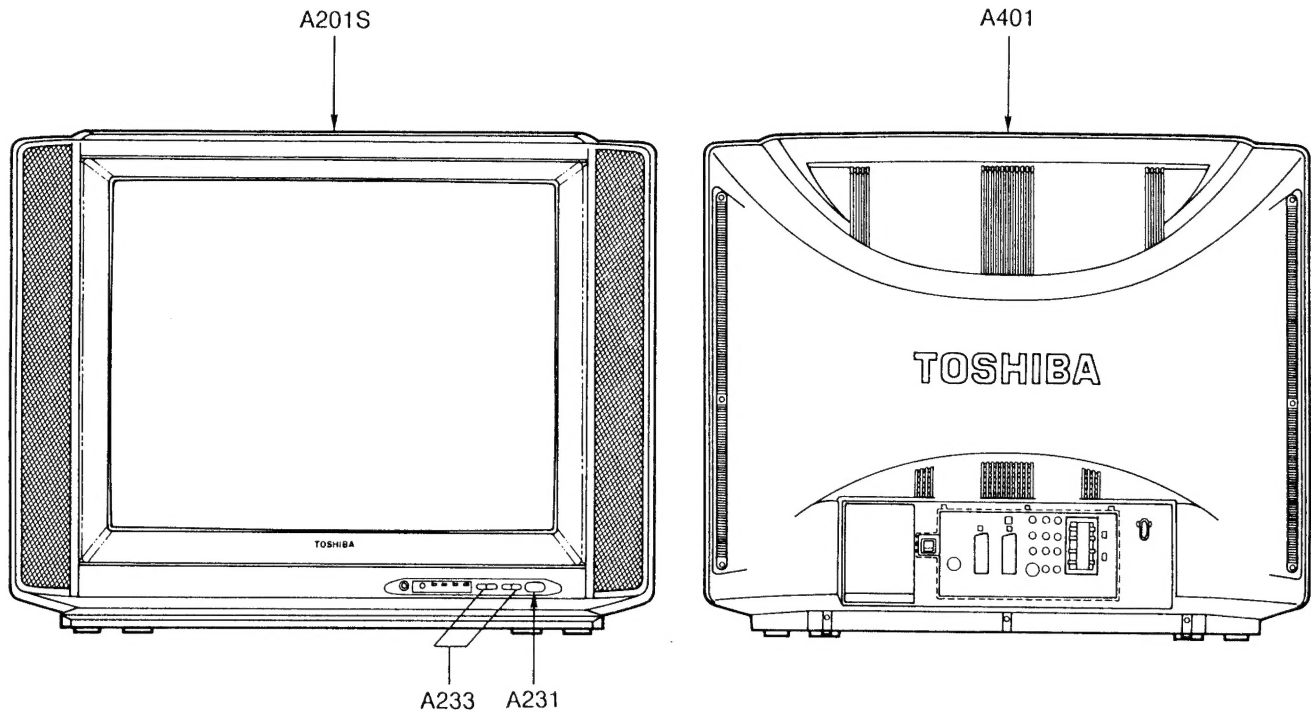
### CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Turn the SCREEN Control (on T461) fully counterclockwise.
3. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) counterclockwise to the minimum.
4. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the mid position.
5. Set the SERVICE SW. (S202) in the H. line position.
6. Short temporarily Terminal of RASTER CHIP on the CRT DRIVE Board.
7. Set the CONTRAST, COLOUR Controls to minimum and BRIGHTNESS Control to centre position.
8. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
9. Open the terminal of RASTER CHIP on the CRT DRIVE Board.
10. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE). The lines may look like white if the CUT OFF Controls are adjusted properly.
11. Return the SERVICE SW. (S202) in the Receiving position.
12. Set the BRIGHTNESS Control to the maximum and COLOUR Control to the minimum.
13. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
14. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

### SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the CONTRAST Control to the maximum and the BRIGHTNESS Control to the centre.
3. Set the COLOUR Control to the minimum.
4. Set the SUB-BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
5. Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
6. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

## CABINET REPLACEMENT PARTS LIST



Location No.	Part No.	Description
A003A	23418857	Speaker Ass'y, R
A003B	23418858	Speaker Ass'y, L
A201S	23418796	Front Cover
A231	23443482	Button, POWER
A233	23443483	Button, 4-key
A302A	23415207	Speaker Box, Back
A302B	23415207	Speaker Box, Back
A303A	23161703	Terminal, 2P
A303B	23161703	Terminal, 2P
A305A	23858524	Spacer
A305B	23858524	Spacer
A306A	23523227	Carton Box, Speaker
A306B	23523227	Carton Box, Speaker
A401	23423667	Back Cover
A411	23567291	Label, Model No., B/C
A701	23523749	Carton Box
A702	23934135	Packing, Bottom
A703	23934136	Packing, Top
A710	23567322	Label, Model No., Carton
Y101	23994941	Owner's Manual
Y140	23805268	Stand Ass'y

## CHASSIS REPLACEMENT PARTS LIST

**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

**CAUTION:** The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

**NOTICE:** The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

### ABBREVIATIONS:

Capacitors.....	CD : Ceramic Disk	PF : Plastic Film	EL : Electrolytic
Resistors.....	CF : Carbon Film	CC : Carbon Composition	MF : Metal Film
	OMF : Oxide Metal Film	VR : Variable Resistor	FR : Fusible Resistor

(All CD and PF capacitors are  $\pm 5\%$ , 50V and all resistors,  $\pm 5\%$ , 1/6W unless otherwise noted.)

Location No.	Part No.	Description
<b>CAPACITORS</b>		
C101	24815102	Chip, 1000pF, $\pm 10\%$
C102	24815102	Chip, 1000pF, $\pm 10\%$
C104	24797220	EL, 22 $\mu$ F, 50V
C105	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C106	24636229	EL, 2.2 $\mu$ F, 50V
C107	24538473	PF, 0.047 $\mu$ F
C108	24707474	Tantalum, 0.47 $\mu$ F, $\pm 20\%$ , 35V
C109	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C112	24781820	Chip, 82pF
C113	24636478	EL, 0.47 $\mu$ F, 50V
C114	24794470	EL, 47 $\mu$ F, 16V
C115	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C116	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C119	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C124	24794101	EL, 100 $\mu$ F, 16V
C125	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C126	24815152	Chip, 1500pF, $\pm 10\%$
C127	24794331	EL, 330 $\mu$ F, 16V
C161	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C162	24815102	Chip, 1000pF, $\pm 10\%$
C163	24815102	Chip, 1000pF, $\pm 10\%$
C164	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
C165	24815102	Chip, 1000pF, $\pm 10\%$
C181	24633471	EL, 470 $\mu$ F, 16V
C182	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C183	24636229	EL, 2.2 $\mu$ F, 50V
C184	24636229	EL, 2.2 $\mu$ F, 50V
C185	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C188	24474103	CD, 0.01 $\mu$ F, $\pm 30\%$ , 16V
C189	24636229	EL, 2.2 $\mu$ F, 50V
C190	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C191	24474103	CD, 0.01 $\mu$ F, $\pm 30\%$ , 16V
C192	24636010	EL, 1 $\mu$ F, 50V
C201	24085981	EL, 10 $\mu$ F, $\pm 20\%$ , 16V
C202	24795101	EL, 100 $\mu$ F, 25V
C203	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C204	24797220	EL, 22 $\mu$ F, 50V
C205	24636478	EL, 0.47 $\mu$ F, 50V
C208	24212102	CD, 1000pF, $\pm 10\%$

Location No.	Part No.	Description
C209	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C211	24636010	EL, 1 $\mu$ F, 50V
C212	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C213	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C240	24636478	EL, 0.47 $\mu$ F, 50V
C301	24636229	EL, 2.2 $\mu$ F, 50V
C302	24212152	CD, 1500pF, $\pm 10\%$
C312	24590622	PF, 6200pF
C313	24796221	EL, 220 $\mu$ F, $\pm 20\%$ , 35V
C314	24668222	EL, 2200 $\mu$ F, $\pm 20\%$ , 35V
C315	24214221	CD, 220pF, $\pm 10\%$ , 500V
C316	24795332	EL, 3300 $\mu$ F, 25V
C317	24617915	EL, 1 $\mu$ F, $\pm 10\%$ , 50V
C319	24082057	PF, 0.22 $\mu$ F, 100V
C321	24435510	CD, 51pF, 500V
C322	24796221	EL, 220 $\mu$ F, $\pm 20\%$ , 35V
C323	24082049	PF, 0.047 $\mu$ F, 100V
C371	24590183	PF, 0.018 $\mu$ F
C372	24617912	EL, 2.2 $\mu$ F, $\pm 10\%$ , 50V
C373	24636478	EL, 0.47 $\mu$ F, 50V
C374	24666101	EL, 100 $\mu$ F, $\pm 20\%$ , 16V
C375	24590472	PF, 4700pF
C376	24212102	CD, 1000pF, $\pm 10\%$
C377	24212222	CD, 2200pF, $\pm 10\%$
C378	24590104	PF, 0.1 $\mu$ F
C402	24353241	CD, 240pF
C403	24636339	EL, 3.3 $\mu$ F, 50V
C405	24590203	PF, 0.02 $\mu$ F
C406	24590153	PF, 0.015 $\mu$ F
C407	24590243	PF, 0.024 $\mu$ F
C408	24636100	EL, 10 $\mu$ F, 50V
C409	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C410	24693272	PF, 2700pF, 100V
C414	24212221	CD, 220pF, $\pm 10\%$
C415	24214221	CD, 220pF, $\pm 10\%$ , 500V
C416	24214271	CD, 270pF, $\pm 10\%$ , 500V
C417	24214821	CD, 820pF, $\pm 10\%$ , 500V
C418	24790100	EL, 10 $\mu$ F, $\pm 20\%$ , 160V
C421	24095755	PF, 0.47 $\mu$ F, 200V
C422	24828683	PF, 0.068 $\mu$ F, 200V
C423	24814103	Chip, 0.01 $\mu$ F, +80%, -20%

Location No.	Part No.	Description
C423	24095947	PF, 0.39 $\mu$ F, 200V
C424	24795470	EL, 47 $\mu$ F, $\pm$ 20%, 25V
C424	24676479	EL, 4.7 $\mu$ F, $\pm$ 20%, 100V
C425	24794101	EL, 100 $\mu$ F, 16V
△ C440	24095893	PF, 6200pF, $\pm$ 3%, 1600V
C441	24214221	CD, 220pF, $\pm$ 10%, 500V
△ C442	24095893	PF, 6200pF, $\pm$ 3%, 1600V
C443	24214221	CD, 220pF, $\pm$ 10%, 500V
C445	24828563	PF, 0.056 $\mu$ F, 200V
△ C446	24829243	PF, 0.024 $\mu$ F, 400V
C447	24644479	EL, 4.7 $\mu$ F, 250V
C448	24667102	EL, 1000 $\mu$ F, $\pm$ 20%, 25V
C449	24666471	EL, 470 $\mu$ F, $\pm$ 20%, 16V
C451	24640962	EL, 33 $\mu$ F, $\pm$ 20%, 200V
C463	24212222	CD, 2200pF, $\pm$ 10%
C464	24082014	PF, 1000pF, $\pm$ 3%, 1600V
C465	24095758	PF, 0.62 $\mu$ F, 200V
C466	24640933	EL, 1 $\mu$ F, $\pm$ 20%, 200V
C501	24797220	EL, 22 $\mu$ F, 50V
C502	24636100	EL, 10 $\mu$ F, 50V
C503	24436101	CD, 100pF
C504	24436271	CD, 270pF
C505	24590273	PF, 0.027 $\mu$ F
C506	24590273	PF, 0.027 $\mu$ F
C507	24590103	PF, 0.01 $\mu$ F
C508	24085028	EL, 2.2 $\mu$ F, 25V, Non-Polar
C509	24353150	CD, 15pF
C510	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C511	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C512	24353300	CD, 30pF
C513	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C514	24436101	CD, 100pF
C515	24636220	EL, 22 $\mu$ F, 50V
C516	24590104	PF, 0.1 $\mu$ F
C517	24590104	PF, 0.1 $\mu$ F
C518	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C519	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C520	24636478	EL, 0.47 $\mu$ F, 50V
C521	24538474	PF, 0.47 $\mu$ F
C522	24538474	PF, 0.47 $\mu$ F
C523	24538474	PF, 0.47 $\mu$ F
C524	24636479	EL, 4.7 $\mu$ F, 50V
C525	24436820	CD, 82pF
C526	24436820	CD, 82pF
C527	24436820	CD, 82pF
C528	24436271	CD, 270pF
C530	24796220	EL, 22 $\mu$ F, $\pm$ 20%, 35V
C531	24633100	EL, 10 $\mu$ F, 16V
C532	24436101	CD, 100pF
C533	24436101	CD, 100pF
C534	24436101	CD, 100pF
C535	24636100	EL, 10 $\mu$ F, 50V
C536	24636478	EL, 0.47 $\mu$ F, 50V
C537	24794101	EL, 100 $\mu$ F, 16V
C540	24436301	CD, 300pF
C541	24436301	CD, 300pF
C542	24436301	CD, 300pF
C601(U101)	24815102	Chip, 1000pF, $\pm$ 10%
C601(U902)	24636229	EL, 2.2 $\mu$ F, 50V
C602(U101)	24815102	Chip, 1000pF, $\pm$ 10%
C602(U902)	24636010	EL, 1 $\mu$ F, 50V
C603	24633330	EL, 33 $\mu$ F, 16V
C604	24538224	PF, 0.22 $\mu$ F
C605	24590104	PF, 0.1 $\mu$ F

Location No.	Part No.	Description
C606	24669101	EL, 100 $\mu$ F, $\pm$ 20%, 50V
C609	24636229	EL, 2.2 $\mu$ F, 50V
C610	24636010	EL, 1 $\mu$ F, 50V
C611	24633330	EL, 33 $\mu$ F, 16V
C612	24538224	PF, 0.22 $\mu$ F
C613	24590104	PF, 0.1 $\mu$ F
C614	24669101	EL, 100 $\mu$ F, $\pm$ 20%, 50V
C615	24667101	EL, 100 $\mu$ F, 25V
C617	24590152	PF, 1500pF
C618	24636229	EL, 2.2 $\mu$ F, 50V
C619	24636010	EL, 1 $\mu$ F, 50V
C620	24633330	EL, 33 $\mu$ F, 16V
C621	24538224	PF, 0.22 $\mu$ F
C622	24590104	PF, 0.1 $\mu$ F
C623	24669101	EL, 100 $\mu$ F, $\pm$ 20%, 50V
C625	24590222	PF, 2200pF
C626	24590104	PF, 0.1 $\mu$ F
C627	24636229	EL, 2.2 $\mu$ F, 50V
C628	24756010	EL, 1 $\mu$ F, 50V
C629	24633330	EL, 33 $\mu$ F, 16V
C630	24538224	PF, 0.22 $\mu$ F
C632	24669101	EL, 100 $\mu$ F, $\pm$ 20%, 50V
C633	24667101	EL, 100 $\mu$ F, 25V
C635	24590222	PF, 2200pF
C636	24795222	EL, 2200 $\mu$ F, 25V
C637	24668222	EL, 2200 $\mu$ F, $\pm$ 20%, 35V
C638	24796222	EL, 2200 $\mu$ F, 35V
C639	24795101	EL, 100 $\mu$ F, 25V
C640	24795222	EL, 2200 $\mu$ F, 25V
C641	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C642	24590102	PF, 1000pF
C643	24590102	PF, 1000pF
C662	24590152	PF, 1500pF
△ C801	24098999	PF, 0.1 $\mu$ F, $\pm$ 20%, AC250V
△ C802	24094654	CD, 470pF, $\pm$ 20%, AC400V
△ C803	24094654	CD, 470pF, $\pm$ 20%, AC400V
C804	24094654	CD, 470pF, $\pm$ 20%, AC400V
C805	24094654	CD, 470pF, $\pm$ 20%, AC400V
C806	24098999	PF, 0.1 $\mu$ F, $\pm$ 20%, AC250V
C811	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C812	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C813	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C814	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C818	24086873	EL, 330 $\mu$ F, $\pm$ 20%, 400V
C820	24636100	EL, 10 $\mu$ F, 50V
C823	24636100	EL, 10 $\mu$ F, 50V
C824	24797221	EL, 220 $\mu$ F, $\pm$ 20%, 50V
C825	24212102	CD, 1000pF, $\pm$ 10%
C826	24590104	PF, 0.1 $\mu$ F
C827	24598561	PF, 560pF
C828	24636100	EL, 10 $\mu$ F, 50V
C829	24757470	EL, 47 $\mu$ F, 100V
C830	24095931	PF, 2200pF, 1600V
C831	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C832	24092336	CD, 180pF, $\pm$ 10%, 2kV
C833	24086939	EL, 330 $\mu$ F, $\pm$ 20%, 200V
C834	24636479	EL, 4.7 $\mu$ F, 50V
C835	24214221	CD, 220pF, $\pm$ 10%, 500V
C836	24795222	EL, 2200 $\mu$ F, 25V
C837	24436561	CD, 560pF
C838	24598561	PF, 560pF
C839	24538474	PF, 0.47 $\mu$ F
C840	24636100	EL, 10 $\mu$ F, 50V
C842	24633470	EL, 47 $\mu$ F, 16V

Location No.	Part No.	Description
C843	24633470	EL, 47 $\mu$ F, 16V
C844	24214221	CD, 220pF, $\pm 10\%$ , 500V
C845	24795222	EL, 2200 $\mu$ F, 25V
C846	24214221	CD, 220pF, $\pm 10\%$ , 500V
C847	24797222	EL, 2200 $\mu$ F, $\pm 20\%$ , 50V
C848	24214221	CD, 220pF, $\pm 10\%$ , 500V
C860	24797102	EL, 1000 $\mu$ F, $\pm 20\%$ , 50V
C861	24092340	CD, 390pF, $\pm 10\%$ , 2kV
C862	24636479	EL, 4.7 $\mu$ F, 50V
C864	24092343	CD, 680pF, $\pm 10\%$ , 2kV
C865	24214391	CD, 390pF, $\pm 10\%$ , 500V
C866	24214391	CD, 390pF, $\pm 10\%$ , 500V
C867	24538474	PF, 0.47 $\mu$ F
C868	24795221	EL, 220 $\mu$ F, $\pm 20\%$ , 25V
C870	24636010	EL, 1 $\mu$ F, 50V
C871	24214391	CD, 390pF, $\pm 10\%$ , 500V
C872	24212101	CD, 100pF, $\pm 10\%$
C873	24636229	EL, 2.2 $\mu$ F, 50V
C901	24644479	EL, 4.7 $\mu$ F, 250V
C902	24095923	PF, 4700pF, 1600V
CA13	24633100	EL, 10 $\mu$ F, 16V
CA15	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CA16	24633220	EL, 22 $\mu$ F, 16V
CA17	24633220	EL, 22 $\mu$ F, 16V
CA29	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CA31	24436300	CD, 30pF
CA32	24436300	CD, 30pF
CA36	24590104	PF, 0.1 $\mu$ F
CA70	24636010	EL, 1 $\mu$ F, 50V
CA71	24212102	CD, 1000pF, $\pm 10\%$
CA72	24212472	CD, 4700pF, $\pm 10\%$
CA73	24636010	EL, 1 $\mu$ F, 50V
CA74	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CA75	24436561	CD, 560pF
CA76	24633330	EL, 33 $\mu$ F, 16V
CA90	24212102	CD, 1000pF, $\pm 10\%$
CB01	24212101	CD, 100pF, $\pm 10\%$
CD09	24781470	Chip, 47pF
CD10	24781470	Chip, 47pF
CD11	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CD12	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CD13	24633220	EL, 22 $\mu$ F, 16V
CD15	24778620	Chip, 620pF
CD16	24783220	Chip, 22pF
CD17	24815562	Chip, 5600pF, $\pm 10\%$
CD18	24774150	Chip, 15pF
CF01	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CF02	24633100	EL, 10 $\mu$ F, 16V
CF03	24794470	EL, 47 $\mu$ F, 16V
CF04	24085002	EL, 2.2 $\mu$ F, 50V, Non-Polar
CF05	24538683	PF, 0.068 $\mu$ F
CF06	24781221	Chip, 220pF
CF08	24538473	PF, 0.047 $\mu$ F
CF09	24774180	Chip, 18pF
CF11	24538473	PF, 0.047 $\mu$ F
CF12	24794470	EL, 47 $\mu$ F, 16V
CF13	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CF14	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CF16	24262180	Chip, 18pF
CF20	24781150	Chip, 15pF
CF21	24591102	PF, 1000pF
CF22	24781471	Chip, 470pF
CF23	24538223	PF, 0.022 $\mu$ F
CF24	24781271	Chip, 270pF

Location No.	Part No.	Description
CF25	24781101	Chip, 100pF
CF26	24774150	Chip, 15pF
CF27	24781270	Chip, 27pF
CF36	24815561	Chip, 560pF, $\pm 10\%$
CG01	24538104	PF, 0.1 $\mu$ F
CG02	24538104	PF, 0.1 $\mu$ F
CG03	24636479	EL, 4.7 $\mu$ F, 50V
CG04	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG05	24633330	EL, 33 $\mu$ F, 16V
CG06	24774180	Chip, 18pF
CG07	24781560	Chip, 56pF
CG08	24774390	Chip, 39pF
CG09	24636478	EL, 0.47 $\mu$ F, 50V
CG10	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG11	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG12	24538104	PF, 0.1 $\mu$ F
CG13	24538104	PF, 0.1 $\mu$ F
CG14	24815331	Chip, 330pF, $\pm 10\%$
CG15	24815331	Chip, 330pF, $\pm 10\%$
CG16	24781111	Chip, 110pF
CG17	24781111	Chip, 110pF
CG18	24538104	PF, 0.1 $\mu$ F
CG19	24538104	PF, 0.1 $\mu$ F
CG20	24287103	Chip, 0.01 $\mu$ F, +80%, -20%
CG21	24287103	Chip, 0.01 $\mu$ F, +80%, -20%
CG22	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG23	24781470	Chip, 47pF
CG24	24774180	Chip, 18pF
CG25	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG26	24636478	EL, 0.47 $\mu$ F, 50V
CG27	24636478	EL, 0.47 $\mu$ F, 50V
CG28	24633330	EL, 33 $\mu$ F, 16V
CG29	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG30	24774180	Chip, 18pF
CG31	24781101	Chip, 100pF
CG32	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG33	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG34	24598681	PF, 680pF
CG35	24794470	EL, 47 $\mu$ F, 16V
CG36	24598122	PF, 1200pF
CG37	24793221	EL, 220 $\mu$ F, $\pm 20\%$ , 10V
CG38	24598122	PF, 1200pF
CG39	24794101	EL, 100 $\mu$ F, 16V
CG40	24794470	EL, 47 $\mu$ F, 16V
CG41	24598681	PF, 680pF
CG42	24794470	EL, 47 $\mu$ F, 16V
CG43	24794470	EL, 47 $\mu$ F, 16V
CG44	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG45	24781220	Chip, 22pF
CG46	24781220	Chip, 22pF
CG47	24794470	EL, 47 $\mu$ F, 16V
CG48	24591183	PF, 0.018 $\mu$ F
CG49	24538104	PF, 0.1 $\mu$ F
CG50	24093928	Variable Capacitor, 5.2 to 30pF, 100V
CG60	24591183	PF, 0.018 $\mu$ F
CG61	24794470	EL, 47 $\mu$ F, 16V
CG62	24636100	EL, 10 $\mu$ F, 50V
CG63	24636100	EL, 10 $\mu$ F, 50V
CG64	24794470	EL, 47 $\mu$ F, 16V
CG65	24636100	EL, 10 $\mu$ F, 50V
CG66	24636100	EL, 10 $\mu$ F, 50V
CG67	24636100	EL, 10 $\mu$ F, 50V
CG68	24085002	EL, 2.2 $\mu$ F, 50V, Non-Polar



Location No.	Part No.	Description
CG69	24636478	EL, 0.47 $\mu$ F, 50V
CG70	24636100	EL, 10 $\mu$ F, 50V
CG71	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG72	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG73	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG74	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG75	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG76	24287103	Chip, 0.01 $\mu$ F, +80%, -20%
CG77	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CG78	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CM05	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CM07	24590563	PF, 0.056 $\mu$ F
CM08	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CN02	24436470	CD, 47pF
CN03	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CN04	24436300	CD, 30pF
CN05	24436471	CD, 470pF
CN06	24436330	CD, 33pF
CN07	24436220	CD, 22pF
CN09	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CN10	24436101	CD, 100pF
CN15	24353330	CD, 33pF
CN18	24353200	CD, 20pF
CN21	24774270	Chip, 27pF
CS04	24633100	EL, 10 $\mu$ F, 16V
CS08	24633100	EL, 10 $\mu$ F, 16V
CS09	24538224	PF, 0.22 $\mu$ F
CS10	24794470	EL, 47 $\mu$ F, 16V
CS12	24781331	Chip, 330pF
CS13	24591682	PF, 6800pF
CS14	24591272	PF, 2700pF
CS15	24636010	EL, 1 $\mu$ F, 50V
CS16	24794470	EL, 47 $\mu$ F, 16V
CS17	24538473	PF, 0.047 $\mu$ F
CS18	24636010	EL, 1 $\mu$ F, 50V
CS19	24636479	EL, 4.7 $\mu$ F, 50V
CS20	24633100	EL, 10 $\mu$ F, 16V
CS21	24633100	EL, 10 $\mu$ F, 16V
CS22	24633100	EL, 10 $\mu$ F, 16V
CS23	24633220	EL, 22 $\mu$ F, 16V
CS24	24636479	EL, 4.7 $\mu$ F, 50V
CS25	24636100	EL, 10 $\mu$ F, 50V
CS26	24636100	EL, 10 $\mu$ F, 50V
CS27	24633100	EL, 10 $\mu$ F, 16V
CS28	24636479	EL, 4.7 $\mu$ F, 50V
CS29	24781681	Chip, 680pF
CS30	24633100	EL, 10 $\mu$ F, 16V
CS31	24633100	EL, 10 $\mu$ F, 16V
CS32	24633220	EL, 22 $\mu$ F, 16V
CS35	24794470	EL, 47 $\mu$ F, 16V
CS36	24794221	EL, 220 $\mu$ F, 16V
CS37	24636010	EL, 1 $\mu$ F, 50V
CS38	24636010	EL, 1 $\mu$ F, 50V
CS39	24633100	EL, 10 $\mu$ F, 16V
CS40	24538334	PF, 0.33 $\mu$ F
CS42	24538273	PF, 0.027 $\mu$ F
CS43	24591472	PF, 4700pF
CS44	24591562	PF, 5600pF
CS45	24538473	PF, 0.047 $\mu$ F
CS47	24633100	EL, 10 $\mu$ F, 16V
CS48	24795470	EL, 47 $\mu$ F, $\pm$ 20%, 25V
CS61	24781391	Chip, 390pF
CS62	24591682	PF, 6800pF
CS64	24591272	PF, 2700pF

Location No.	Part No.	Description
CS65	24781101	Chip, 100pF
CS66	24781101	Chip, 100pF
CS67	24636479	EL, 4.7 $\mu$ F, 50V
CS68	24814103	Chip, 0.01 $\mu$ F, +80%, -20%
CS69	24794470	EL, 47 $\mu$ F, 16V
CS70	24781100	Chip, 10pF, $\pm$ 0.5pF
CS71	24815102	Chip, 1000pF, $\pm$ 10%
CS72	24633100	EL, 10 $\mu$ F, 16V
CS73	24781100	Chip, 10pF, $\pm$ 0.5pF
CS74	24538104	PF, 0.1 $\mu$ F
CS75	24636100	EL, 10 $\mu$ F, 50V
CS76	24636010	EL, 1 $\mu$ F, 50V
CS77	24794101	EL, 100 $\mu$ F, 16V
CS78	24636010	EL, 1 $\mu$ F, 50V
CS79	24591392	PF, 3900pF
CS80	24538333	PF, 0.033 $\mu$ F
CS81	24591562	PF, 5600pF
CS82	24633100	EL, 10 $\mu$ F, 16V
CS83	24633100	EL, 10 $\mu$ F, 16V
CS84	24591562	PF, 5600pF
CS85	24538333	PF, 0.033 $\mu$ F
CS86	24591392	PF, 3900pF
CS87	24538153	PF, 0.015 $\mu$ F
CS88	24538153	PF, 0.015 $\mu$ F
CS89	24636010	EL, 1 $\mu$ F, 50V
CS90	24633220	EL, 22 $\mu$ F, 16V
CS91	24636010	EL, 1 $\mu$ F, 50V
CS92	24636479	EL, 4.7 $\mu$ F, 50V
CS93	24633220	EL, 22 $\mu$ F, 16V
CS94	24636010	EL, 1 $\mu$ F, 50V
CS96	24636010	EL, 1 $\mu$ F, 50V
CV01	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV02	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV03	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV04	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV05	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV06	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV07	24636100	EL, 10 $\mu$ F, 50V
CV08	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV09	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV10	24636100	EL, 10 $\mu$ F, 50V
CV11	24636100	EL, 10 $\mu$ F, 50V
CV12	24636100	EL, 10 $\mu$ F, 50V
CV13	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV14	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV15	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV23	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV24	24636100	EL, 10 $\mu$ F, 50V
CV26	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV27	24636339	EL, 3.3 $\mu$ F, 50V
CV28	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV29	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV30	24633100	EL, 10 $\mu$ F, 16V
CV36	24636100	EL, 10 $\mu$ F, 50V
CV37	24797220	EL, 22 $\mu$ F, 50V
CV39	24636478	EL, 0.47 $\mu$ F, 50V
CV40	24085981	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV41	24085981	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV42	24633100	EL, 10 $\mu$ F, 16V
CV43	24085981	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV44	24633100	EL, 10 $\mu$ F, 16V
CV45	24636010	EL, 1 $\mu$ F, 50V
CV46	24636100	EL, 10 $\mu$ F, 50V
CV47	24794101	EL, 100 $\mu$ F, 16V

Location No.	Part No.	Description
CV48	24636479	EL, 4.7 $\mu$ F, 50V
CV49	24436680	CD, 68pF
CV50	24436680	CD, 68pF
CV51	24436331	CD, 330pF
CV52	24436221	CD, 220pF
CV53	24436221	CD, 220pF
CV54	24538474	PF, 0.47 $\mu$ F
CV55	24763221	EL, 220 $\mu$ F, $\pm$ 20%, 16V
CV56	24633100	EL, 10 $\mu$ F, 16V
CV57	24636010	EL, 1 $\mu$ F, 50V
CV58	24636010	EL, 1 $\mu$ F, 50V
CV59	24636010	EL, 1 $\mu$ F, 50V
CV60	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV61	24794101	EL, 100 $\mu$ F, 16V
CV62	24636010	EL, 1 $\mu$ F, 50V
CV63	24636010	EL, 1 $\mu$ F, 50V
CV64	24636010	EL, 1 $\mu$ F, 50V
CV65	24636010	EL, 1 $\mu$ F, 50V
CV66	24636010	EL, 1 $\mu$ F, 50V
CV67	24636010	EL, 1 $\mu$ F, 50V
CV69	24794101	EL, 100 $\mu$ F, 16V
CV70	24794101	EL, 100 $\mu$ F, 16V
CV71	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV72	24636100	EL, 10 $\mu$ F, 50V
CV73	24633470	EL, 47 $\mu$ F, 16V
CV74	24590104	PF, 0.1 $\mu$ F
CV75	24633100	EL, 10 $\mu$ F, 16V
CV76	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV79	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV80	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV81	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV82	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV83	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV85	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV86	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV87	24794221	EL, 220 $\mu$ F, 16V
CV88	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CV92	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV93	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV94	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV95	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CV96	24636010	EL, 1 $\mu$ F, 50V
CV97	24636010	EL, 1 $\mu$ F, 50V
CV98	24590123	PF, 0.012 $\mu$ F
CV99	24590123	PF, 0.012 $\mu$ F
CW01	24202221	EL, 220 $\mu$ F, $\pm$ 20%, 10V
CW02	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CW03	24203470	EL, 47 $\mu$ F, $\pm$ 20%, 16V
CW04	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CW05	24203470	EL, 47 $\mu$ F, $\pm$ 20%, 16V
CW06	24590104	PF, 0.1 $\mu$ F
CW07	24590104	PF, 0.1 $\mu$ F
CW09	24636010	EL, 1 $\mu$ F, 50V
CW10	24636010	EL, 1 $\mu$ F, 50V
CW11	24636010	EL, 1 $\mu$ F, 50V
CW12	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CW13	24633100	EL, 10 $\mu$ F, 16V
CW16	24590104	PF, 0.1 $\mu$ F
CW17	24763221	EL, 220 $\mu$ F, $\pm$ 20%, 16V
CW20	24436150	CD, 15pF
CX02	24538474	PF, 0.47 $\mu$ F
CX03	24538474	PF, 0.47 $\mu$ F
CX04	24538474	PF, 0.47 $\mu$ F

Location No.	Part No.	Description
<b>RESISTORS</b>		
R101	24872222	Chip, 2200 ohm, 1/16W
R102	24872124	Chip, 120k ohm, 1/16W
R103	24872222	Chip, 2200 ohm, 1/16W
R104	24872332	Chip, 3300 ohm, 1/16W
R105	24872153	Chip, 15k ohm, 1/16W
R106	24872913	Chip, 91k ohm, 1/16W
R107	24872123	Chip, 12k ohm, 1/16W
R108	24872102	Chip, 1000 ohm, 1/16W
R110	24872562	Chip, 5600 ohm, 1/16W
R111	24872152	Chip, 1500 ohm, 1/16W
R112	24872332	Chip, 3300 ohm, 1/16W
R113	24872132	Chip, 1300 ohm, 1/16W
R114	24872222	Chip, 2200 ohm, 1/16W
R117	24872112	Chip, 1100 ohm, 1/16W
R118	24872470	Chip, 47 ohm, 1/16W
R119	24872472	Chip, 47 ohm, 1/16W
R126	24872101	Chip, 100 ohm, 1/16W
R127	24552102	OMF, 1k ohm, 1/2W
R128	24872334	Chip, 330k ohm, 1/16W
R129	24871101	Chip, 100 ohm, 1/8W
R151	24066599	VR, 5k ohm, 1/10W
R153	24066946	Variable Resistor, 1M ohm, 1/10W
R161	24872162	Chip, 1600 ohm, 1/16W
R163	24872682	Chip, 6800 ohm, 1/16W
R165	24872562	Chip, 5600 ohm, 1/16W
R166	24872360	Chip, 36 ohm, 1/16W
R167	24552471	OMF, 470 ohm, 1/2W
R170	24872151	Chip, 150 ohm, 1/16W
R171	24872131	Chip, 130 ohm, 1/16W
R174	24872100	Chip, 1000 ohm, 1/16W
R201(U101)	24872271	Chip, 270 ohm, 1/16W
R201(U902)	24366152	CF, 1500 ohm
R203	24366152	CF, 1500 ohm
R204	24366472	CF, 4700 ohm
R208	24366101	CF, 100 ohm
R212	24366103	CF, 10k ohm
R213	24366152	CF, 1500 ohm
R214	24366182	CF, 1800 ohm
R216	24366473	CF, 47k ohm
R219	24366472	CF, 4700 ohm
R242	24366912	CF, 9100 ohm
R243	24366153	CF, 15k ohm
R252	24061593	VR, 500 ohm, 1/8W
R253	24061593	VR, 500 ohm, 1/8W
R301	24366131	CF, 130 ohm
R302	24366244	CF, 240k ohm
R305	24366161	CF, 160 ohm
△ R316	24383271	OMF, 270 ohm, 2W
R317	24366102	CF, 1k ohm
R318	24366104	CF, 100k ohm
R319	24382561	OMF, 560 ohm, 1W
R321	24366223	CF, 22k ohm
R322	24366164	CF, 160k ohm
△ R323	24323109	OMF, 1 ohm, 2W
R327	24547479	FR, 4.7 ohm, 1W
R329	24552100	OMF, 10 ohm, 1/2W
R333	24366103	CF, 10k ohm
△ R334	24383561	OMF, 560 ohm, 2W
R371	24366471	CF, 470 ohm
R372	24366471	CF, 470 ohm
R373	24366101	CF, 100 ohm
R374	24366223	CF, 22k ohm



Location No.	Part No.	Description
R375	24366274	CF, 270k ohm
R376	24366224	CF, 220k ohm
R377	24366104	CF, 100k ohm
R378	24366204	CF, 200k ohm
R379	24366155	CF, 1.5M ohm
R380	24366562	CF, 5600 ohm
R381	24366102	CF, 1k ohm
R390	24366273	CF, 27k ohm
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24552432	OMF, 4300 ohm, 1/2W
R405	24366431	CF, 430 ohm
R408	24366682	CF, 6800 ohm
R409	24366434	CF, 430k ohm
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366391	CF, 390 ohm
R412	24366161	CF, 160 ohm
△ R416	24007631	Cement, 3600 ohm, 7W
R418	24382242	OMF, 2400 ohm, 1W
R419	24942390	CC, 39 ohm, 1/2W
R420	24009951	OMF, 1k ohm, 1W
R421	24366105	CF, 1M ohm
R422	24366102	CF, 1k ohm
R423	24366122	CF, 1200 ohm
R423	24552221	OMF, 220 ohm, 1/2W
R424	24366103	CF, 10k ohm
△ R425	24547399	FR, 3.9 ohm, 1W
R427	24366392	CF, 3900 ohm
R440	24552103	OMF, 10k ohm, 1/2W
R441	24552103	OMF, 10k ohm, 1/2W
R444	24323828	OMF, 0.82 ohm, 2W
△ R446	24532151	FR, 150 ohm, 1W
R448	24323338	OMF, 0.33 ohm, 2W
R501	24366100	CF, 10 ohm
R502	24366334	CF, 330k ohm
R504	24366471	CF, 470 ohm
R505	24366752	CF, 7500 ohm
R506	24366102	CF, 1k ohm
R507	24366822	CF, 8200 ohm
R508	24366391	CF, 390 ohm
R509	24366122	CF, 1200 ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R520	24366332	CF, 3300 ohm
R521	24366181	CF, 180 ohm
R522	24366185	CF, 1.8M ohm
R524	24366183	CF, 18k ohm
R525	24366223	CF, 22k ohm
R526	24366102	CF, 1k ohm
R527	24366681	CF, 680 ohm
R528	24366750	CF, 75 ohm
R529	24366101	CF, 100 ohm
R530	24366101	CF, 100 ohm
R531	24366681	CF, 680 ohm
R532	24366473	CF, 47k ohm
R533	24366362	CF, 3600 ohm
R535	24366181	CF, 180 ohm
R537	24366362	CF, 3600 ohm
R538	24366201	CF, 200 ohm
R539	24366362	CF, 3600 ohm

Location No.	Part No.	Description
R541	24366821	CF, 820 ohm
R542	24366241	CF, 240 ohm
R543	24366103	CF, 10k ohm
R544	24366101	CF, 100 ohm
R546	24366473	CF, 47k ohm
R547	24366102	CF, 1k ohm
R548	24366102	CF, 1k ohm
R549	24366102	CF, 1k ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24061589	VR, 10k ohm, 1/8W
R558	24061589	VR, 10k ohm, 1/8W
R559	24061589	VR, 10k ohm, 1/8W
R565	24366560	CF, 56 ohm
R566	24366560	CF, 56 ohm
R567	24366560	CF, 56 ohm
R568	24366102	CF, 1k ohm
R570	24366362	CF, 3600 ohm
R571	24366362	CF, 3600 ohm
R572	24366362	CF, 3600 ohm
R580	24366271	CF, 270 ohm
R581	24366121	CF, 120 ohm
△ R591	24009974	OMF, 15k ohm, 2W
△ R592	24009974	OMF, 15k ohm, 2W
△ R593	24009974	OMF, 15k ohm, 2W
R601	24366223	CF, 22k ohm
R602	24366223	CF, 22k ohm
R603	24872222	Chip, 2200 ohm, 1/16W
R603	24366152	CF, 1500 ohm
R604	24366104	CF, 100k ohm
R605	24321109	OMF, 1 ohm, 1/2W
R606	24366223	CF, 22k ohm
R610	24366683	CF, 68k ohm
R611	24366223	CF, 22k ohm
R612	24366223	CF, 22k ohm
R613	24366683	CF, 68k ohm
R614	24366152	CF, 1500 ohm
R615	24366104	CF, 100k ohm
R616(U101)	24872183	Chip, 18k ohm, 1/16W
R616(U902)	24366473	CF, 47k ohm
R617(U101)	24872242	Chip, 2400 ohm, 1/16W
R617(U902)	24366473	CF, 47k ohm
R618(U101)	24872561	Chip, 560 ohm, 1/16W
R618(U902)	24366223	CF, 22k ohm
R619	24872271	Chip, 270 ohm, 1/16W
R620(U101)	24872821	Chip, 820 ohm, 1/16W
R620(U902)	24366223	CF, 22k ohm
R621	24366223	CF, 22k ohm
R622	24366302	CF, 3k ohm
R623	24366104	CF, 100k ohm
R624	24321109	OMF, 1 ohm, 1/2W
R625	24366223	CF, 22k ohm
R627	24366223	CF, 22k ohm
R628	24366105	CF, 1M ohm
R629	24366683	CF, 68k ohm
R630	24366223	CF, 22k ohm
R631	24366683	CF, 68k ohm
R632	24366302	CF, 3k ohm
R633	24321109	OMF, 1 ohm, 1/2W
R634	24366473	CF, 47k ohm
R635	24366473	CF, 47k ohm
R636	24366223	CF, 22k ohm
R638	24366223	CF, 22k ohm
R639	24366223	CF, 22k ohm
R640	24366223	CF, 22k ohm

Location No.	Part No.	Description
R641	24366103	CF, 10k ohm
R642	24366103	CF, 10k ohm
R643	24366473	CF, 47k ohm
R644	24872473	Chip, 47k ohm, 1/16W
R645	24366103	CF, 10k ohm
R648	24366223	CF, 22k ohm
R649	24321109	OMF, 1 ohm, 1/2W
R660	24366223	CF, 22k ohm
R661	24366104	CF, 100k ohm
R662	24366223	CF, 22k ohm
R663	24366103	CF, 10k ohm
R665	24552160	OMF, 16 ohm, 1/2W
R666	24552160	OMF, 16 ohm, 1/2W
R670	24366103	CF, 10k ohm
R671	24366102	CF, 1k ohm
R672	24366103	CF, 10k ohm
R673	24366223	CF, 22k ohm
R675	24366103	CF, 10k ohm
R676	24366103	CF, 10k ohm
R801	24004914	CC, 5.6M ohm, 1/2W
△ R805	24007864	Cement, 3 ohm, 15W
△ R810	24384823	OMF, 82k ohm, 3W
R812	24321689	OMF, 6.8 ohm, 1/2W
R813	24553471	OMF, 470 ohm, 1W
R814	24321338	OMF, 0.33 ohm, 1/2W
R815	24366104	CF, 100k ohm
R816	24367123	CF, 12k ohm, $\pm 2\%$
△ R817	24007952	Cement, 6.8 ohm, 5W
R818	24366331	CF, 330 ohm
R819	24327104	MF, 100k ohm, $\pm 1\%$ , 1/4W
R820	24366100	CF, 10 ohm
R821	24366101	CF, 100 ohm
R822	24322398	OMF, 0.39 ohm, 1W
△ R823	24007738	Cement, 330 ohm, 10W
R824	24322398	OMF, 0.39 ohm, 1W
R825	24366101	CF, 100 ohm
R826	24366331	CF, 330 ohm
△ R827	24007554	Cement, 6800 ohm, 5W
R828	24366103	CF, 10k ohm
△ R829	24383103	OMF, 10k ohm, 2W
R830	24366103	CF, 10k ohm
R831	24366102	CF, 1k ohm
R832	24322338	OMF, 0.33 ohm, 1W
R833	24327134	MF, 130k ohm, $\pm 1\%$ , 1/4W
R834	24327222	MF, 2200 ohm, $\pm 1\%$ , 1/4W
R835	24366823	CF, 82k ohm
R836	24327913	MF, 91k ohm, $\pm 1\%$ , 1/4W
R837	24381100	OMF, 10 ohm, 1/2W
R838	24366103	CF, 10k ohm
R839	24383153	OMF, 15k ohm, 2W
R840	24366103	CF, 10k ohm
R842	24557109	FR, 1 ohm, $\pm 10\%$ , 1W
R843	24366332	CF, 3300 ohm
R844	24366103	CF, 10k ohm
R845	24366332	CF, 3300 ohm
R846	24366151	CF, 150 ohm
R847	24366102	CF, 1k ohm
R848	24366102	CF, 1k ohm
R851	24066924	VR, 50k ohm, 1/10W
R852	24066925	VR, 20k ohm, 1/10W
R860	24366182	CF, 1800 ohm
R861	24322228	OMF, 0.22 ohm, 1W
△ R862	24000894	FR, 1 ohm, 1W
△ R863	24383152	OMF, 1500 ohm, 2W

Location No.	Part No.	Description
△ R864	24383102	OMF, 1k ohm, 2W
R865	24366222	CF, 2200 ohm
R867	24366101	CF, 100 ohm
R868	24366103	CF, 10k ohm
R869	24366102	CF, 1k ohm
R870	24366102	CF, 1k ohm
R871	24366222	CF, 2200 ohm
R872	24366103	CF, 10k ohm
R873	24366103	CF, 10k ohm
R874	24366472	CF, 4700 ohm
R875	24381100	OMF, 10 ohm, 1/2W
R876	24366152	CF, 1500 ohm
△ R890	24000875	PTC Thermistor, 18 ohm, $\pm 20\%$ , 290V
R901	24946272	CC, 2700 ohm, $\pm 10\%$ , 1/2W
R902	24946272	CC, 2700 ohm, $\pm 10\%$ , 1/2W
R903	24946272	CC, 2700 ohm, $\pm 10\%$ , 1/2W
△ R920	24000880	FR, 5.1 ohm, 1W
RA01	24366183	CF, 18k ohm
RA02	24366562	CF, 5600 ohm
RA03	24366103	CF, 10k ohm
RA04	24366103	CF, 10k ohm
RA05	24366102	CF, 1k ohm
RA07	24366222	CF, 2200 ohm
RA09	24366102	CF, 1k ohm
RA10	24366104	CF, 100k ohm
RA11	24366102	CF, 1k ohm
RA13	24366102	CF, 1k ohm
RA14	24366102	CF, 1k ohm
RA15	24366102	CF, 1k ohm
RA16	24366103	CF, 10k ohm
RA17	24366103	CF, 10k ohm
RA18	24366103	CF, 10k ohm
RA19	24366102	CF, 1k ohm
RA20	24366103	CF, 10k ohm
RA21	24366561	CF, 560 ohm
RA22	24366561	CF, 560 ohm
RA23	24366103	CF, 10k ohm
RA29	24366103	CF, 10k ohm
RA31	24366912	CF, 9100 ohm
RA32	24366472	CF, 4700 ohm
RA33	24366102	CF, 1k ohm
RA34	24366102	CF, 1k ohm
RA45	24366183	CF, 18k ohm
RA46	24366123	CF, 12k ohm
RA47	24366152	CF, 1500 ohm
RA48	24366102	CF, 1k ohm
RA50	24366102	CF, 1k ohm
RA53	24366332	CF, 3300 ohm
RA54	24366332	CF, 3300 ohm
RA55	24366332	CF, 3300 ohm
RA56	24366123	CF, 12k ohm
RA57	24366392	CF, 3900 ohm
RA58	24366152	CF, 1500 ohm
RA59	24366392	CF, 3900 ohm
RA60	24366392	CF, 3900 ohm
RA61	24366102	CF, 1k ohm
RA62	24366102	CF, 1k ohm
RA63	24366102	CF, 1k ohm
RA65	24366102	CF, 1k ohm
RA66	24366102	CF, 1k ohm
RA67	24366153	CF, 15k ohm
RA68	24366332	CF, 3300 ohm
RA69	24366473	CF, 47k ohm

Location No.	Part No.	Description
RA70	24366561	CF, 560 ohm
RA71	24366564	CF, 560k ohm
RA72	24366563	CF, 56k ohm
RA73	24366123	CF, 12k ohm
RA74	24366392	CF, 3900 ohm
RA75	24366103	CF, 10k ohm
RA76	24366473	CF, 47k ohm
RA77	24366152	CF, 1500 ohm
RA78	24366103	CF, 10k ohm
RA79	24366153	CF, 15k ohm
RA80	24366753	CF, 75k ohm
RA81	24366101	CF, 100 ohm
RA82	24366101	CF, 100 ohm
RA83	24366473	CF, 47k ohm
RA84	24366101	CF, 100 ohm
RA85	24366101	CF, 100 ohm
RA87	24366102	CF, 1k ohm
RA88	24366753	CF, 75k ohm
RA89	24366471	CF, 470 ohm
RA90	24366471	CF, 470 ohm
RA91	24366223	CF, 22k ohm
RA92	24366472	CF, 4700 ohm
RA93(U902)	24366101	CF, 100 ohm
RA93(U904)	24366471	CF, 470 ohm
RA94	24366101	CF, 100 ohm
RA95	24366101	CF, 100 ohm
RB01	24366472	CF, 4700 ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	CF, 3300 ohm
RB06	24366473	CF, 47k ohm
RB10	24366222	CF, 2200 ohm
RB11	24890331	CF, 330 ohm, 1/4W
RB12	24366331	CF, 330 ohm
RD10	24872102	Chip, 1000 ohm, 1/16W
RD11	24872102	Chip, 1000 ohm, 1/16W
RD13	24872153	Chip, 15k ohm, 1/16W
RD14	24872332	Chip, 3300 ohm, 1/16W
RD15	24872222	Chip, 2200 ohm, 1/16W
RF01	24872101	Chip, 100 ohm, 1/16W
RF02	24872152	Chip, 1500 ohm, 1/16W
RF03	24872103	Chip, 10k ohm, 1/16W
RF05	24872101	Chip, 100 ohm, 1/16W
RF06	24872152	Chip, 1500 ohm, 1/16W
RF07	24872101	Chip, 100 ohm, 1/16W
RF08	24872152	Chip, 1500 ohm, 1/16W
RF09	24872101	Chip, 100 ohm, 1/16W
RF10	24872152	Chip, 1500 ohm, 1/16W
RF11	24872683	Chip, 68k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872122	Chip, 1200 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872331	Chip, 330 ohm, 1/16W
RF19	24872101	Chip, 100 ohm, 1/16W
RF20	24872331	Chip, 330 ohm, 1/16W
RF24	24872332	Chip, 3300 ohm, 1/16W
RF35	24872472	Chip, 47 ohm, 1/16W
RG01(U904)	24366221	CF, 220 ohm
RG01(UG01)	24872101	Chip, 100 ohm, 1/16W
RG02(U904)	24366221	CF, 220 ohm
RG02(UG02)	24872101	Chip, 100 ohm, 1/16W
RG04	24872102	Chip, 1000 ohm, 1/16W
RG05	24872471	Chip, 470 ohm, 1/16W

Location No.	Part No.	Description
RG06(U902)	24366103	CF, 10k ohm
RG06(UG01)	24872393	Chip, 39k ohm, 1/16W
RG08	24872103	Chip, 10k ohm, 1/16W
RG09	24872104	Chip, 100k ohm, 1/16W
RG10	24872102	Chip, 1000 ohm, 1/16W
RG11	24872511	Chip, 510 ohm, 1/16W
RG12	24872224	Chip, 220k ohm, 1/16W
RG13	24872154	Chip, 150k ohm, 1/16W
RG14	24872103	Chip, 10k ohm, 1/16W
RG15	24872151	Chip, 150 ohm, 1/16W
RG16	24872152	Chip, 1500 ohm, 1/16W
RG17	24872392	Chip, 3900 ohm, 1/16W
RG18	24872472	Chip, 47 ohm, 1/16W
RG19	24872223	Chip, 22k ohm, 1/16W
RG20	24872471	Chip, 470 ohm, 1/16W
RG21	24872471	Chip, 470 ohm, 1/16W
RG22	24872103	Chip, 10k ohm, 1/16W
RG23	24872103	Chip, 10k ohm, 1/16W
RG24	24872103	Chip, 10k ohm, 1/16W
RG25	24872102	Chip, 1000 ohm, 1/16W
RG26	24872223	Chip, 22k ohm, 1/16W
RG27	24872103	Chip, 10k ohm, 1/16W
RG28	24872683	Chip, 68k ohm, 1/16W
RG29	24872102	Chip, 1000 ohm, 1/16W
RG30	24872102	Chip, 1000 ohm, 1/16W
RG31	24872153	Chip, 15k ohm, 1/16W
RG32	24871223	Chip, 22k ohm, 1/8W
RG33	24872153	Chip, 15k ohm, 1/16W
RG34	24872102	Chip, 1000 ohm, 1/16W
RG35	24872102	Chip, 1000 ohm, 1/16W
RG36	24872223	Chip, 22k ohm, 1/16W
RG37	24872332	Chip, 3300 ohm, 1/16W
RG38	24872332	Chip, 3300 ohm, 1/16W
△ RG39	24531100	FR, 10 ohm, 1/2W
RG40	24872332	Chip, 3300 ohm, 1/16W
RG41	24872332	Chip, 3300 ohm, 1/16W
RG42	24872102	Chip, 1000 ohm, 1/16W
RG43	24872272	Chip, 2700 ohm, 1/16W
RG44	24872102	Chip, 1000 ohm, 1/16W
RG45	24872272	Chip, 2700 ohm, 1/16W
RG46	24872103	Chip, 10k ohm, 1/16W
RG48	24872223	Chip, 22k ohm, 1/16W
RG49	24872103	Chip, 10k ohm, 1/16W
RG50	24872103	Chip, 10k ohm, 1/16W
RG60	24872101	Chip, 100 ohm, 1/16W
RG61	24872103	Chip, 10k ohm, 1/16W
RG62	24872223	Chip, 22k ohm, 1/16W
RG63	24872101	Chip, 100 ohm, 1/16W
RG64	24872101	Chip, 100 ohm, 1/16W
RG65	24872563	Chip, 56k ohm, 1/16W
RG66	24872563	Chip, 56k ohm, 1/16W
RG67	24872472	Chip, 47 ohm, 1/16W
RG68	24872563	Chip, 56k ohm, 1/16W
RG69	24872563	Chip, 56k ohm, 1/16W
RG70	24872472	Chip, 47 ohm, 1/16W
RG71	24872681	Chip, 680 ohm, 1/16W
RG72	24872393	Chip, 39k ohm, 1/16W
RG73	24872103	Chip, 10k ohm, 1/16W
RG74	24872101	Chip, 100 ohm, 1/16W
RG75	24872223	Chip, 22k ohm, 1/16W
RG76	24871101	Chip, 100 ohm, 1/8W
RG77	24872103	Chip, 10k ohm, 1/16W
RG78	24871101	Chip, 100 ohm, 1/8W
RG79	24872562	Chip, 5600 ohm, 1/16W

Location No.	Part No.	Description
RG80	24872102	Chip, 1000 ohm, 1/16W
RM07	24941103	CC, 10k ohm, 1/4W
RN01	24366101	CF, 100 ohm
RN02	24366201	CF, 200 ohm
RN03	24366473	CF, 47k ohm
RN04	24366471	CF, 470 ohm
RN05	24366222	CF, 2200 ohm
RN06	24366182	CF, 1800 ohm
RN07	24366103	CF, 10k ohm
RN08	24366185	CF, 1.8M ohm
RN09	24366223	CF, 22k ohm
RN10	24366103	CF, 10k ohm
RN11	24366103	CF, 10k ohm
RN12	24366473	CF, 47k ohm
RN13	24366473	CF, 47k ohm
RN14	24366103	CF, 10k ohm
RN15	24366332	CF, 3300 ohm
RN21	24366102	CF, 1k ohm
RS01	24872153	Chip, 15k ohm, 1/16W
RS02	24872303	Chip, 30k ohm, 1/16W
RS03	24872133	Chip, 13k ohm, 1/16W
RS04	24872303	Chip, 30k ohm, 1/16W
RS17	24872221	Chip, 220 ohm, 1/16W
RS18	24872104	Chip, 100k ohm, 1/16W
RS19	24872104	Chip, 100k ohm, 1/16W
RS20	24872473	Chip, 47k ohm, 1/16W
RS21	24872473	Chip, 47k ohm, 1/16W
RS22	24872272	Chip, 2700 ohm, 1/16W
RS25	24872101	Chip, 100 ohm, 1/16W
RS26	24872103	Chip, 10k ohm, 1/16W
RS27	24872163	Chip, 16k ohm, 1/16W
RS28	24872103	Chip, 10k ohm, 1/16W
RS29	24872163	Chip, 16k ohm, 1/16W
RS30	24872183	Chip, 18k ohm, 1/16W
RS31	24872473	Chip, 47k ohm, 1/16W
RS32	24872473	Chip, 47k ohm, 1/16W
RS33	24872274	Chip, 270k ohm, 1/16W
RS34	24872154	Chip, 150k ohm, 1/16W
RS35	24872332	Chip, 3300 ohm, 1/16W
RS36	24872151	Chip, 150 ohm, 1/16W
RS37	24872333	Chip, 33k ohm, 1/16W
RS38	24872473	Chip, 47k ohm, 1/16W
RS39	24872684	Chip, 680k ohm, 1/16W
RS45	24872182	Chip, 1800 ohm, 1/16W
RS46	24872332	Chip, 3300 ohm, 1/16W
RS47	24872103	Chip, 10k ohm, 1/16W
RS48	24872684	Chip, 680k ohm, 1/16W
RS50	24872473	Chip, 47k ohm, 1/16W
RS61	24872103	Chip, 10k ohm, 1/16W
RS62	24872103	Chip, 10k ohm, 1/16W
RS64	24872472	Chip, 47 ohm, 1/16W
RS65	24872105	Chip, 1M ohm, 1/16W
RS66	24872332	Chip, 3300 ohm, 1/16W
RS67	24872621	Chip, 620 ohm, 1/16W
RS68	24872332	Chip, 3300 ohm, 1/16W
RS69	24872621	Chip, 620 ohm, 1/16W
RS71	24872473	Chip, 47k ohm, 1/16W
RS72	24872103	Chip, 10k ohm, 1/16W
RS73	24872103	Chip, 10k ohm, 1/16W
RS74	24872103	Chip, 10k ohm, 1/16W
RS75	24872103	Chip, 10k ohm, 1/16W
RS76	24871103	Chip, 10k ohm, 1/8W
RS77	24872223	Chip, 22k ohm, 1/16W
RS78	24872223	Chip, 22k ohm, 1/16W

Location No.	Part No.	Description
RS79	24872101	Chip, 100 ohm, 1/16W
RS80	24872101	Chip, 100 ohm, 1/16W
RS82	24872101	Chip, 100 ohm, 1/16W
RS84	24872101	Chip, 100 ohm, 1/16W
RS87	24872101	Chip, 100 ohm, 1/16W
RS88	24872101	Chip, 100 ohm, 1/16W
RS90	24872223	Chip, 22k ohm, 1/16W
RS91	24872473	Chip, 47k ohm, 1/16W
RS94	24872684	Chip, 680k ohm, 1/16W
RS96	24941335	CC, 3.3M ohm, 1/4W
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366101	CF, 100 ohm
RV08	24366101	CF, 100 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV11	24366101	CF, 100 ohm
RV12	24366101	CF, 100 ohm
RV13	24366101	CF, 100 ohm
RV14	24366101	CF, 100 ohm
RV15	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366104	CF, 100k ohm
RV18	24366104	CF, 100k ohm
RV19	24366104	CF, 100k ohm
RV20	24366104	CF, 100k ohm
RV21	24366104	CF, 100k ohm
RV22	24366104	CF, 100k ohm
RV23	24366104	CF, 100k ohm
RV24	24366471	CF, 470 ohm
RV25	24366331	CF, 330 ohm
RV26	24366680	CF, 68 ohm
RV27	24366910	CF, 91 ohm
RV28	24366680	CF, 68 ohm
RV31	24366820	CF, 82 ohm
RV32	24366820	CF, 82 ohm
RV33	24366104	CF, 100k ohm
RV34	24366104	CF, 100k ohm
RV35	24366104	CF, 100k ohm
RV36	24366104	CF, 100k ohm
RV37	24366101	CF, 100 ohm
RV38	24366101	CF, 100 ohm
RV39	24366910	CF, 91 ohm
RV40	24366680	CF, 68 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366750	CF, 75 ohm
RV44	24366750	CF, 75 ohm
RV45	24366750	CF, 75 ohm
RV46	24366102	CF, 1k ohm
RV47	24366101	CF, 100 ohm
RV49	24366474	CF, 470k ohm
RV50	24367562	CF, 5600 ohm, $\pm 2\%$
RV51	24366512	CF, 5100 ohm
RV52	24366302	CF, 3k ohm
RV53	24366302	CF, 3k ohm
RV54	24366101	CF, 100 ohm
RV55	24366101	CF, 100 ohm
RV56	24552161	OMF, 160 ohm, 1/2W
RV57	24367122	CF, 1200 ohm, $\pm 2\%$
RV58	24366101	CF, 100 ohm

Location No.	Part No.	Description
RV60	24552820	OMF, 82 ohm, 1/2W
RV61	24366303	CF, 30k ohm
RV63	24366101	CF, 100 ohm
RV65	24366101	CF, 100 ohm
RV68	24366101	CF, 100 ohm
RV69	24366101	CF, 100 ohm
RV73	24366910	CF, 91 ohm
RV74	24366103	CF, 10k ohm
RV75	24366821	CF, 820 ohm
RV76	24366821	CF, 820 ohm
RV77	24366101	CF, 100 ohm
RV78	24366101	CF, 100 ohm
RV79	24552391	OMF, 390 ohm, 1/2W
RV80	24366103	CF, 10k ohm
RV81	24366473	CF, 47k ohm
RV82	24366621	CF, 620 ohm
RV83	24366621	CF, 620 ohm
RV84	24366621	CF, 620 ohm
RV85	24366621	CF, 620 ohm
RV86	24366101	CF, 100 ohm
RV88	24366473	CF, 47k ohm
RV89	24366473	CF, 47k ohm
RV90	24366223	CF, 22k ohm
RV91	24366391	CF, 390 ohm
RV93	24366102	CF, 1k ohm
RV96	24366133	CF, 13k ohm
RV97	24366242	CF, 2400 ohm
RV98	24366222	CF, 2200 ohm
RV99	24366223	CF, 22k ohm
RW01	24366101	CF, 100 ohm
RW02	24366101	CF, 100 ohm
RW03	24366471	CF, 470 ohm
RW04	24366101	CF, 100 ohm
RW05	24366331	CF, 330 ohm
RW07	24366101	CF, 100 ohm
RW08	24366101	CF, 100 ohm
RW09	24553680	OMF, 68 ohm, 1W
RW10	24366680	CF, 68 ohm
RW11	24366102	CF, 1k ohm
RW12	24366102	CF, 1k ohm
RW13	24366102	CF, 1k ohm
RW14	24366102	CF, 1k ohm
RW15	24366104	CF, 100k ohm
RW16	24366104	CF, 100k ohm
RW18	24366103	CF, 10k ohm
RW19	24366102	CF, 1k ohm
RW20	24366102	CF, 1k ohm
RW21	24366102	CF, 1k ohm
RW22	24366102	CF, 1k ohm
RW24	24366102	CF, 1k ohm
RW25	24366102	CF, 1k ohm
RW26	24366104	CF, 100k ohm
RW27	24366103	CF, 10k ohm
RW28	24366472	CF, 4700 ohm
RW29	24366104	CF, 100k ohm
RW30	24366103	CF, 10k ohm
RW31	24366332	CF, 3300 ohm
RW32	24366332	CF, 3300 ohm
RW33	24366223	CF, 22k ohm
RW34	24366104	CF, 100k ohm
RW35	24366560	CF, 56 ohm
RW36	24366223	CF, 22k ohm
RW37	24366104	CF, 100k ohm
RW38	24366560	CF, 56 ohm

Location No.	Part No.	Description
RW39	24366103	CF, 10k ohm
RW40	24366103	CF, 10k ohm
RW44	24366101	CF, 100 ohm
RW52	24366155	CF, 1.5M ohm
RW53	24366155	CF, 1.5M ohm
RW54	24366155	CF, 1.5M ohm
RW55	24366101	CF, 100 ohm
RW56	24366223	CF, 22k ohm
RW57	24366223	CF, 22k ohm
RW58	24366223	CF, 22k ohm
RW59	24366161	CF, 160 ohm
RW60	24366161	CF, 160 ohm
RW61	24366161	CF, 160 ohm
RW62	24366102	CF, 1k ohm
RW63	24366102	CF, 1k ohm
RW64	24366101	CF, 100 ohm
RW71	24366222	CF, 2200 ohm
RW72	24366112	CF, 1100 ohm
RW73	24366272	CF, 2700 ohm
RW74	24366912	CF, 9100 ohm
RW75	24366302	CF, 3k ohm
RW76	24366472	CF, 4700 ohm
RW78	24366472	CF, 4700 ohm
RW79	24366750	CF, 75 ohm
RW80	24366821	CF, 820 ohm
RW81	24366821	CF, 820 ohm
RW82	24366820	CF, 82 ohm
RW83	24552161	OMF, 160 ohm, 1/2W
△ RW84	24546919	FR, 9.1 ohm, 1/2W
RW85	24366102	CF, 1k ohm
RW86	24366102	CF, 1k ohm
RW87	24366102	CF, 1k ohm
RW88	24366102	CF, 1k ohm
RW90	24366153	CF, 15k ohm
RW91	24366103	CF, 10k ohm
RW92	24366393	CF, 39k ohm
RX13	24366102	CF, 1k ohm
<b>COILS &amp; TRANSFORMERS</b>		
L101	23237987	Coil, Peaking, TRF4100AC
L102	23262819	Coil, PIF, TRF1071D
L103	23237987	Coil, Peaking, TRF4100AC
L107	23237987	Coil, Peaking, TRF4100AC
L151	23262668	Coil, IF, TRF1162T
L153	23262813	Coil, IF, TRF1077D
L161	23261980	Coil, RF Choke, TRF9225
L311	23103901	Coil (Ferrite Bead), TEM2017
L315	23238922	Coil, Peaking, TRF4100AC
L370	23289101	Coil, Peaking, TRF4101AF
L405	23221685	Coil, Choke, TLN3193
L406	23103859	Coil (Ferrite Bead), TEM2011
L411	23233068	Coil, Linearity, TLN2117
L412	23221936	Coil, Choke, TLN3041
L421	23211897	Coil, Choke, AT4043/100T
L422	23221738	Coil, Choke, TLN3132D
L423	23211896	Coil, Choke, AT4043/60T
△ L462	23227259	Deflection Yoke, YS-58543
L503	23237987	Coil, Peaking, TRF4100AC
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23289100	Coil, Peaking, TRF4100AF
L601	23221685	Coil, Choke, TLN3193
L602	23262821	Coil, Peaking, TRF4100AF
L603	23238714	Coil, Peaking, TRF4100AJ

Location No.	Part No.	Description
L802	23221077	Coil, Choke, TLN1015S
L803	23221747	Coil, Choke, TRF9253D
L804	23221747	Coil, Choke, TRF9253D
L805	23222694	Coil, Horiz., TLN2026
L806	23103859	Coil (Ferrite Bead), TEM2011
L807	23103859	Coil (Ferrite Bead), TEM2011
L808	23222694	Coil, Horiz., TLN2026
L809	23222694	Coil, Horiz., TLN2026
L810	23222694	Coil, Horiz., TLN2026
L811	23103859	Coil (Ferrite Bead), TEM2011
L812	23222694	Coil, Horiz., TLN2026
L813	23103859	Coil (Ferrite Bead), TEM2011
L814	23103859	Coil (Ferrite Bead), TEM2011
L815	23238922	Coil, Peaking, TRF4100AC
△ L901	23200749	Coil, Degaussing, TSB2247
LA01	23238934	Coil, Peaking, TRF4109AC
LB01	23262742	Coil, IF, TRF1129
LB05	23221685	Coil, Choke, TLN3193
LD04	23237986	Coil, Peaking, TRF4120AC
LD05	23232946	Coil, Variable, TRF3073D
LF02	23238920	Coil, Peaking, TRF4150AC
LG01	23107544	Filter, 6.65MHz, TLC1142T
LG02	23107700	Filter, 15kHz, TLC1163T
LG03	23107700	Filter, 15kHz, TLC1163T
LG04	23238725	Coil, Peaking, TRF4472AI
LG05	23238725	Coil, Peaking, TRF4472AI
LG06	23237983	Coil, Peaking, TRF4220AC
LG07	23103859	Coil (Ferrite Bead), TEM2011
LN01	23238920	Coil, Peaking, TRF4150AC
LN02	23238918	Coil, Peaking, TRF4220AC
LS03	23103859	Coil (Ferrite Bead), TEM2011
LV01	23237979	Coil, Peaking, TRF4470AC
LV02	23237979	Coil, Peaking, TRF4470AC
△ T401	23224997	Transformer, Horiz. Drive, TLN1027
△ T461	23236253	Transformer, Flyback, 470036-62
T801	23211934	Line Filter, TRF3133
T802	23211928	Line Filter, TRF3129
△ T803	23217077	Transformer, Converter, TPW3186
T804	23224917	Transformer, Separation, TLN2122
T805	23211922	Line Filter, TRF3127
<b>SEMICONDUCTORS</b>		
IC101	23318437	IC, $\mu$ PC1820CA
IC303	23318301	IC, TDA8170
IC371	B0383680	IC, TA8739P
IC408	23319314	IC, $\mu$ PC2412HF
IC501	B0383970	IC, TA8783N
IC608	23319009	IC, TDA2030A
IC609	23319009	IC, TDA2030A
IC610	23319009	IC, TDA2030A
IC611	23319009	IC, TDA2030A
IC803	23318411	IC, TEA2164
IC806	23318299	IC, L78MR05-FA
IC807	23318412	IC, TEA5170
ICA01	23319082	IC, CXP80424-105
ICA07	23319016	IC, $\mu$ PD6254CX
ICA08	23319015	IC, $\mu$ PD6252C
ICD03	B0325290	IC, TA7337P
ICF01	23318097	IC, SAA5231
ICF02	23318383	IC, SAA5243P/E

Location No.	Part No.	Description
ICF03	23319001	IC, IMS1630LP12
ICG01	B0483990	IC, TC5565APL-12
ICG02	B0652347	IC, TC6011N
ICG03	B0379500	IC, TA8662N
ICG04	B0272755	IC, TD6710AN
ICG05	72112042	IC, TLO82CP
ICG06	B0470532	IC, TC4053BP
ICS01	72112042	IC, TLO82CP
ICS04	B0470532	IC, TC4053BP
ICS05	23318433	IC, M51131L
ICS08	B0350000	IC, TA75458P
ICS09	23318433	IC, M51131L
ICS10	B0350602	IC, TA75559P FA-1
ICS11	72112042	IC, TLO82CP
ICS12	B0372560	IC, TA78L005AP
ICS16	23318434	IC, YM3428
ICS17	B0356152	IC, TA7629P(DD)
ICS18	23319008	IC, TDA8421
ICS19	23318433	IC, M51131L
ICV01	B0383940	IC, TA8777N
ICV06	B0383930	IC, TA8775N
ICV07	23318055	IC, TDA4565
ICV08	23319425	IC, CXA1420P
ICV14	B0372960	IC, TA78L009AP
ICV21	B0372960	IC, TA78L009AP
ICV22	B0372960	IC, TA78L009AP
Q103	A6339829	Transistor, 2SC2859Y-CNR
Q161	A6357138	Transistor, 2SC3125 FA-6
Q402	A678971D	Transistor, 2SC1569 FA-5
△ Q404	23314376	Transistor, ON4408
Q406	23314229	Transistor, 2SD1378-Q
Q421	23114632	Transistor, BC547B
Q422	A6358055	Transistor, 2SC3182N FA-1
Q502	23114689	Transistor, BC547A
Q503	23114691	Transistor, BC557A
Q505	23114693	Transistor, BF871
Q506	23114689	Transistor, BC547A
Q507	23114693	Transistor, BF871
Q508	23114689	Transistor, BC547A
Q509	23114693	Transistor, BF871
Q510	23114689	Transistor, BC547A
Q514	23114688	Transistor, BC327
Q516	23114689	Transistor, BC547A
Q601	A6342200	Transistor, 2SC2878-A
Q602	23114691	Transistor, BC557A
Q603	A6335477	Transistor, 2SC2712-Y
Q604	23114691	Transistor, BC557A
Q605	A6342200	Transistor, 2SC2878-A
Q606	A6342200	Transistor, 2SC2878-A
Q607(U101)	A6335477	Transistor, 2SC2712-Y
Q607(U902)	A6342200	Transistor, 2SC2878-A
Q608	A6335477	Transistor, 2SC2712-Y
Q802	23114632	Transistor, BC547B
△ Q804	A6366908	Transistor, 2SC4288A FA-1
Q805	23114632	Transistor, BC547B
Q809	23114632	Transistor, BC547B
Q810	A6328333	Transistor, 2SC2383-Y
Q811	23114546	Transistor, BC557B
Q812	23314374	Transistor, BD945
Q813	A6845743	Transistor, 2SD717-Y
Q814	A6546310	Transistor, 2SA1297Y
Q815	23114632	Transistor, BC547B
Q816	A6867970	Transistor, 2SD1405-BL
Q817	A6321240	Transistor, 2SC2120-Y

Location No.	Part No.	Description
QA02	A6342200	Transistor, 2SC2878-A
QA03	23114689	Transistor, BC547A
QA04	23114689	Transistor, BC547A
QA06	23114689	Transistor, BC547A
QA09	23114691	Transistor, BC557A
QA10	23114689	Transistor, BC547A
QA11	23114691	Transistor, BC557A
QA12	A6342200	Transistor, 2SC2878-A
QA90	23114689	Transistor, BC547A
QB01	23114689	Transistor, BC547A
QB02	23114689	Transistor, BC547A
QF07	A6335477	Transistor, 2SC2712-Y
QG07	A6335477	Transistor, 2SC2712-Y
QG08	A6335477	Transistor, 2SC2712-Y
QG09	A6335477	Transistor, 2SC2712-Y
QG10	A6335477	Transistor, 2SC2712-Y
QG11	A6335477	Transistor, 2SC2712-Y
QG12	A6339829	Transistor, 2SC2859Y-CNR
QG13	A6335477	Transistor, 2SC2712-Y
QG14	A6335477	Transistor, 2SC2712-Y
QG15	A6335477	Transistor, 2SC2712-Y
QN13	23114689	Transistor, BC547A
QN14	23114689	Transistor, BC547A
QN15	23114689	Transistor, BC547A
QS06	A6335477	Transistor, 2SC2712-Y
QV02	23114691	Transistor, BC557A
QV03	23114689	Transistor, BC547A
QV04	23114689	Transistor, BC547A
QV05	23114689	Transistor, BC547A
QV10	23114689	Transistor, BC547A
QV12	23114691	Transistor, BC557A
QV13	23114691	Transistor, BC557A
QV15	23114691	Transistor, BC557A
QV18	23114689	Transistor, BC547A
QV19	23114689	Transistor, BC547A
QV20	23114689	Transistor, BC547A
QW31	23114689	Transistor, BC547A
QW32	23114689	Transistor, BC547A
QW33	23114689	Transistor, BC547A
QW34	23114689	Transistor, BC547A
D108	23115878	Diode, Zener, $\mu$ PC574J(L)
D241	A7150041	Diode, 1SS104
D302	23118479	Diode, BYD33J
D305	23118479	Diode, BYD33J
D307	23115599	Diode, 1N4148
D310	24000255	Diode, SC570A
D401	A7116925	Diode, Zener, 04AZ9.1Z
D402	A7118215	Diode, Zener, 04AZ33-Y
D403	A7117215	Diode, Zener, 04AZ12Y
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D409	A7117015	Diode, Zener, 04AZ10Y
D410	A7116815	Diode, Zener, 04AZ8.2Y
D415	23115599	Diode, 1N4148
D440	23118995	Diode, BY228
D441	23118994	Diode, BYW95C
D594	23115599	Diode, 1N4148
D595	23115599	Diode, 1N4148
D596	23115599	Diode, 1N4148
D601	23115599	Diode, 1N4148
D602	23118479	Diode, BYD33J
D603	23115599	Diode, 1N4148
D604	23118479	Diode, BYD33J
D605	23115599	Diode, 1N4148

Location No.	Part No.	Description
D606	23118479	Diode, BYD33J
D607	23115599	Diode, 1N4148
D608	23118479	Diode, BYD33J
D609	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D614	23115599	Diode, 1N4148
D803	23316275	Diode, RBV606 LF-A
D807	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23118479	Diode, BYD33J
D810	23118479	Diode, BYD33J
D812	23118479	Diode, BYD33J
D813	23118479	Diode, BYD33J
D814	23118479	Diode, BYD33J
D815	23118479	Diode, BYD33J
D816	23118479	Diode, BYD33J
D817	23118451	Diode, RU4A
D818	23118338	Diode, RU4AM LF-L1
D819	23118052	Diode, RU4Z
D820	23115599	Diode, 1N4148
D821	23115599	Diode, 1N4148
D823	23115599	Diode, 1N4148
D824	23115599	Diode, 1N4148
D825	A7116415	Diode, Zener, 04AZ5.6Y
D826	23118052	Diode, RU4Z
D827	A7117305	Diode, Zener, 04AZ13X
D828	23118052	Diode, RU4Z
D829	23118052	Diode, RU4Z
D830	23115599	Diode, 1N4148
D832	A7116625	Diode, Zener, 04AZ6.8Z
D833	23118479	Diode, BYD33J
D836	23115599	Diode, 1N4148
D838	23115599	Diode, 1N4148
D839	23115599	Diode, 1N4148
D840	A7116415	Diode, Zener, 04AZ5.6Y
D841	23118479	Diode, BYD33J
D842	23115599	Diode, 1N4148
DA01	A7116405	Diode, Zener, 04AZ5.6X
DA04	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA06	23115599	Diode, 1N4148
DA11	23115599	Diode, 1N4148
DA27	23115599	Diode, 1N4148
DA28	23115599	Diode, 1N4148
DB01	23115599	Diode, 1N4148
DB02	23115604	Diode, Zener, ZPD6.2
DB03	23115604	Diode, Zener, ZPD6.2
DB04	23115604	Diode, Zener, ZPD6.2
DB05	23115604	Diode, Zener, ZPD6.2
DB06	23115604	Diode, Zener, ZPD6.2
DB07	23115604	Diode, Zener, ZPD6.2
DB50	23318436	Diode (LED), MV53124A, Yellow
DE50	23118969	Diode (LED), MV57124, Red
DG01	A7150258	Diode, 1SS176
DG02	A7150258	Diode, 1SS176
DG03	A7150258	Diode, 1SS176
DG04	A7150258	Diode, 1SS176
DG05	A7150258	Diode, 1SS176
DG06	A7150258	Diode, 1SS176
DN01	A7288601	Diode, 1S2186 FA-1
DN02	A7288601	Diode, 1S2186 FA-1

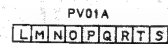


Location No.	Part No.	Description
DS06	A7150258	Diode, 1SS176
DS50	23318436	Diode (LED), MV53124A, Yellow
DT50	23118969	Diode (LED), MV57124, Red
DV02	23115599	Diode, 1N4148
DV03	23115599	Diode, 1N4148
DV04	A7116315	Diode, Zener, 04AZ5.1Y
DV05	23115599	Diode, 1N4148
DV06	23115599	Diode, 1N4148
DV07	23115599	Diode, 1N4148
DV10	23118522	Diode, Zener, RD7.5ES-B3
DV11	23115599	Diode, 1N4148
<b>MISCELLANEOUS</b>		
B121	23712306	Screw, PP3X.5X6SZN
△ F801	23144898	Fuse, 3.15A
F801A	23165102	Fuse Holder
K901	23120371	Remote Sensor, IR-9106-K
P515	23367392	Plug, 3P
P661	23363607	Headphone Jack, 3.5mm
PF02	23367677	Plug, 4P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23161702	Terminal, 8P
PH04	23363872	Pin Jack, Yellow
PH05	23363871	Pin Jack, Red
PH06	23363873	Pin Jack, White
PH07	23363872	Pin Jack, Yellow
PH08	23363871	Pin Jack, Red
PH09	23363873	Pin Jack, White
PH10	23363872	Pin Jack, Yellow
PH11	23363871	Pin Jack, Red
PH12	23363873	Pin Jack, White
PH13	23365361	Jack, 4P
PH14	23363871	Pin Jack, Red
PH15	23363873	Pin Jack, White
PS02	23367684	Plug, 11P
PV01A	23902649	Socket, 9P
PV01B	23367721	Connector, 9P
PV02A	23902649	Socket, 9P
PV02B	23367721	Connector, 9P
PV03A	23902649	Socket, 9P
PV03B	23367721	Connector, 9P
S501	23145226	Switch, Push, 1C1P
S502	23145226	Switch, Push, 1C1P
S503	23145226	Switch, Push, 1C1P
S504	23145226	Switch, Push, 1C1P
△ S801	23145434	Switch, Power, 2C2P
S810	23146946	Switch, Power, 2C2P
SV01	23145364	Switch, Slide, 1C2P
SV02	23145355	Switch, Slide, 4C2P
SV03	23145355	Switch, Slide, 4C2P
△ V901A	23902019	Socket, CRT, 10P
W661	23351046	Speaker, SPK-1319, 70x130mm, 8 ohm
W662	23351046	Speaker, SPK-1319, 70x130mm, 8 ohm
W663	23351047	Speaker, SPK-1320, 60x90mm, 8 ohm
W664	23351047	Speaker, SPK-1320, 60x90mm, 8 ohm
W668A	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm

Location No.	Part No.	Description
W668B	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X502	23153653	PAL 1H-Delay Line, ED645A-91S
XA01	23153845	Ceramic Resonator, 4.0MHz, TCR1015
XF01	23153657	Crystal, 13.875MHz
XF02	23153924	Crystal, 6.000MHz
XN01	23153979	Crystal, 4.43MHz
XS02	23153961	Crystal, 3.58MHz
Z101	A5615250	PIF SAW Filter, F1805C
Z201	23107926	Ceramic Video Trap, 6.0MHz, TCF1012
Z666	23107930	Ceramic Filter, 6.0MHz, TCF1008
ZA02	24000548	Resistor Block, 47k ohmx4, 1/10W
ZA03	24000548	Resistor Block, 47k ohmx4, 1/10W
ZF01	23107746	Filter, 3MHz, TEM1010
ZG01	23153669	Crystal, 5.824MHz
ZG02	23107849	Ceramic Video Trap, 4.43MHz, TCF1032
ZG03	23153670	Crystal, 6.552MHz
ZG05	23153671	Ceramic Resonator, TCR1034
ZV01	23107849	Ceramic Video Trap, 4.43MHz, TCF1032
ZV14	23107787	Ceramic Video Trap, 3.58MHz, TCF1044
<b>PC BOARD ASSEMBLIES</b>		
U101	23336974	PIF Board, PB0177-1
U902A	23337243	Main Board, PB0860
U903A	23336979	Power Board, PB0179-1
U903B	23336980	Back Term. Board, PB0179-2
U904A	23337244	CRT Drive Board, PB0861-1
U904B	23337245	Control Board, PB0861-2
U904C	23337246	Headphone Board, PB0861-3
UF01	23336976	Text Board, PB0177-3
UG01	23336975	Nicam Board, PB0177-2
US01	23336977	Dolby Board, PB0177-4
<b>PICTURE TUBE</b>		
V901	A5572839	Picture Tube, A59KHQ146X, SVC
<b>TUNER</b>		
H001	23121568	Tuner, VHF/UHF, UF785BL
<b>REMOTE HAND SET PARTS</b>		
K902	23120340	Remote Hand Unit, CT-9493
AT01	23304519	Upper Case
AT02	23304520	Lower Case
AT03	23304521	Battery Cover
AT04	23304440	Filter
ST01	23304522	Rubber Sheet, L
ST02	23304523	Rubber Sheet, S
UT01	23336498	PC Board, PB0530
ZT01	23153736	Ceramic Resonator, CSB455EB20



BOTTOM (FOIL) SIDE



BOTTOM (FOIL) SIDE

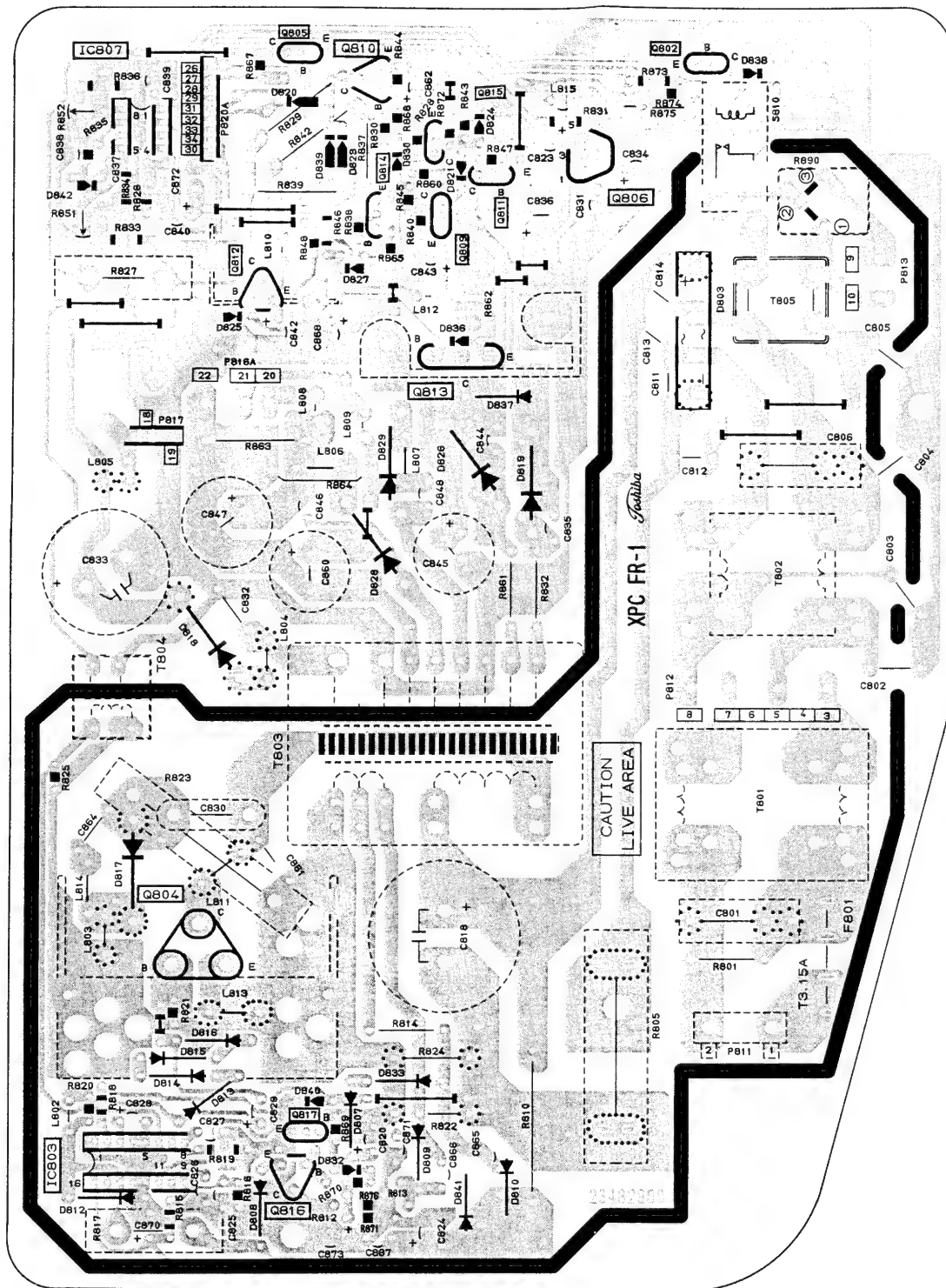


TOM (FOIL) SIDE



# POWER BOARD PB0179-1

BOTTOM (FOIL) SIDE

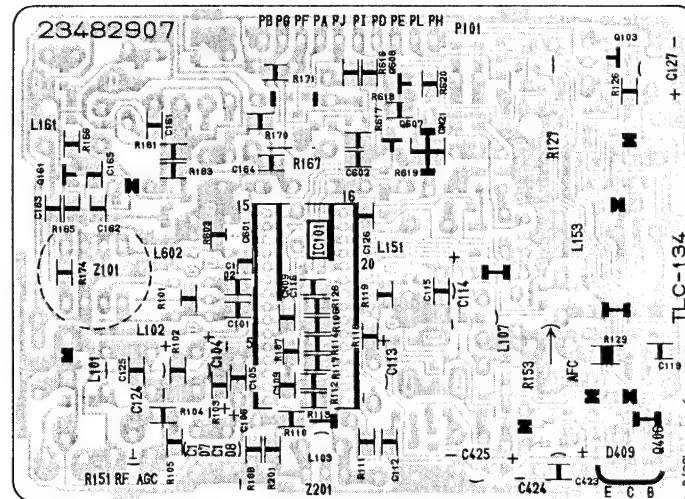




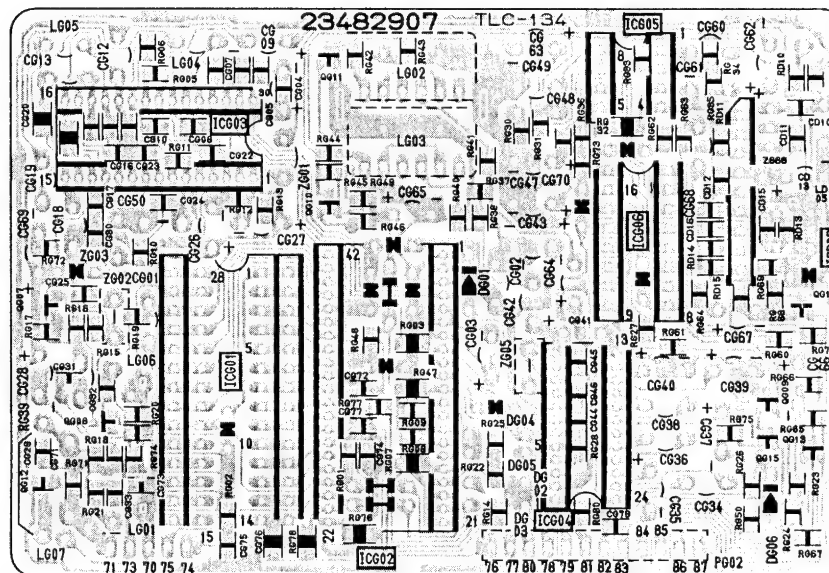
BOTTOM (FOIL) SIDE



BOTTOM (FOIL) SIDE



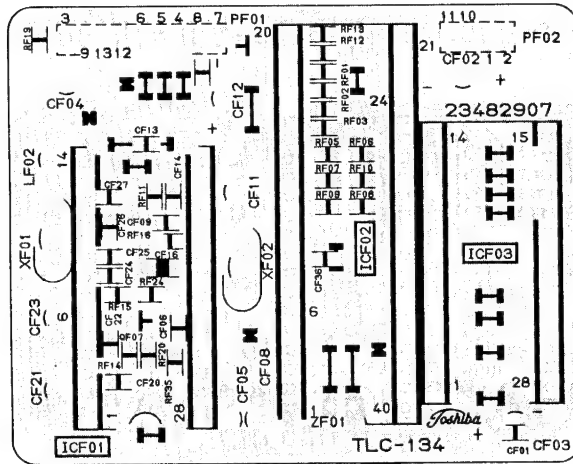
BOTTOM (FOIL) SIDE



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email:- [sales@mauritron.co.uk](mailto:sales@mauritron.co.uk)

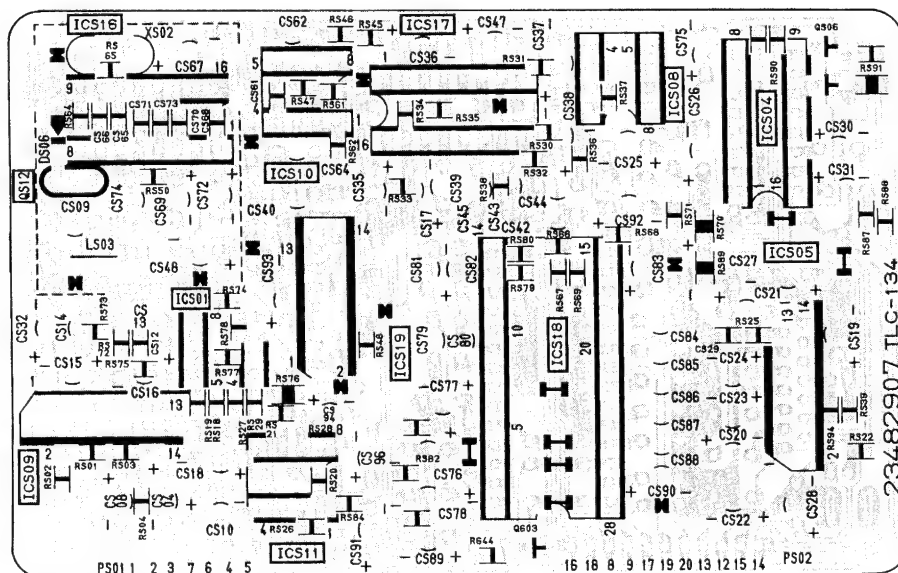
# TEXT BOARD PB0177-3

BOTTOM (FOIL) SIDE



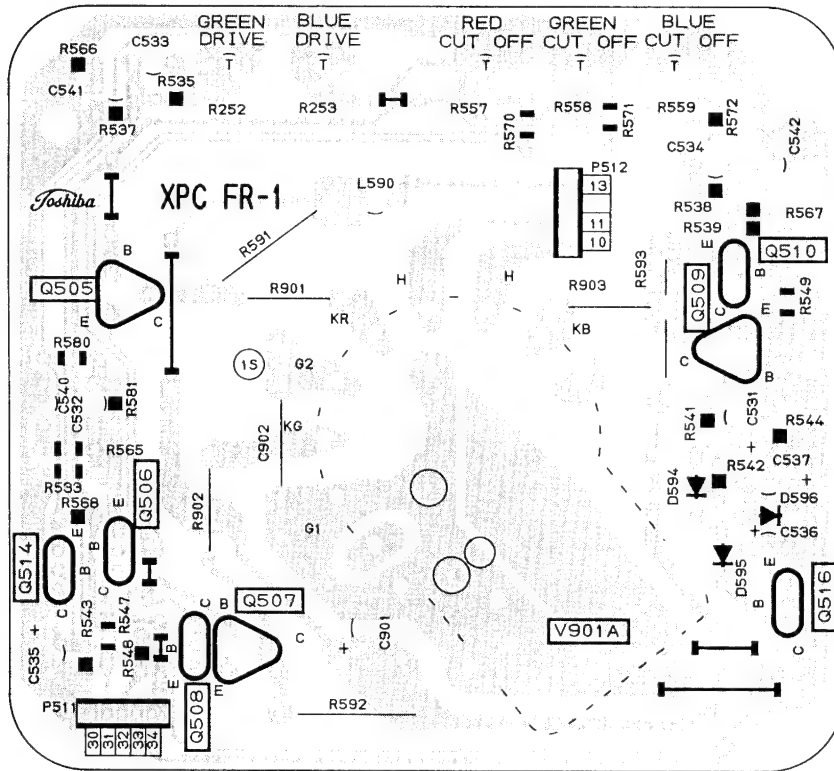
# DOLBY BOARD PB0177-4

BOTTOM (FOIL) SIDE



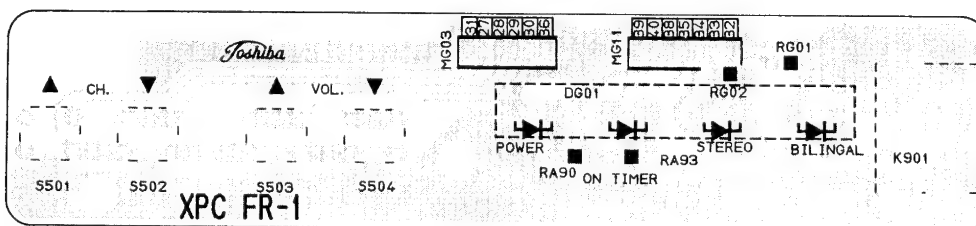
## CRT DRIVE BOARD PB0861-1

BOTTOM (FOIL) SIDE



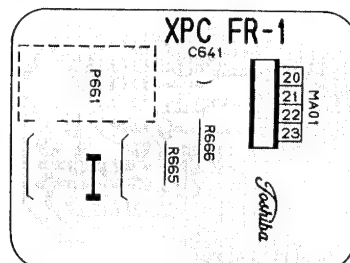
## CONTROL BOARD PB0861-2

BOTTOM (FOIL) SIDE



## HEADPHONE BOARD PB0861-3

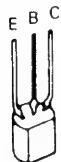
BOTTOM (FOIL) SIDE





## TERMINAL VIEW OF TRANSISTORS

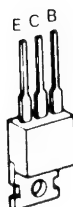
- ① BC327  
BC337  
BC547A  
BC547B  
BC547C  
BC557A  
BC557B  
BC556A



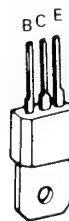
- ② 2SK30ATM  
2SK117



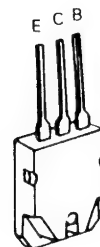
- ③ BD202



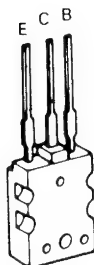
- ④ BF871  
2SD553  
2SC1569



- ⑤ 2SC3678  
2SC3182N



- ⑥ 2SD1427  
2SD1432



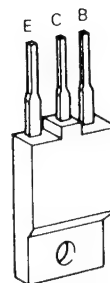
- ⑦ 2SC2482  
2SA1321  
2SC2230  
2SA1020  
2SC2655  
2SC752GTM



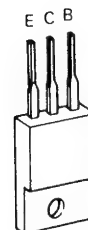
- ⑧ 2SC388ATM  
2SA1015  
2SC1959  
2SA562TM



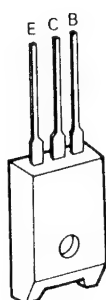
- ⑨ 2SD1548



- ⑩ 2SC2023



- ⑪ ON4408  
ON4409



# **TOSHIBA**

COLOUR TELEVISION

## **2805DBT:2505DBT**

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### **SUPPLEMENT TO THE SERVICE DATA**

Use the correct data described in this sheet for the above service data.

#### **CORRECTED DATA**

- Page 1. **Input Power Rating:** 2805DBT 200W, AC240V      2505DBT 198W, AC240V
- Page 2. **High Voltage:**

2805DBT and 2505DBT	
Nominal E.H.T. voltage (at zero beam current)	30.2 kV
Maximum E.H.T. voltage	32.0 kV
Nominal working E.H.T. voltage	28.0 kV
- Page 3. **High Voltage:**

2805DBT	
AC power voltage	240V

2805DBT and 2505DBT

#### **HIGH VOLTAGE CHECK**



**CAUTION:** There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 32 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 32 kV under any conditions.

#### CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Set "SERVICE MODE" by RMT H.H.U. ( **F** + **→** and **1**, **0**, **4**, **8** )
3. Turn the SCREEN Control (on T461) fully counter-clockwise.
4. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
5. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
6. Set the "CUT OFF (No Vertical Deflection) MODE" by RMT H.H.U. ( **F** + **2** key)
7. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
8. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).  
The lines may look like white if the CUT OFF Controls are adjusted properly.
9. Release the "CUT OFF MODE" by RMT H.H.U. ( **F** + **2** key)
10. Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
11. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
12. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.
13. Exit from the "SERVICE MODE" by turning the power ON/OFF with RMT H.H.U.

#### SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the "SERVICE MODE" by RMT H.H.U.
3. Set the CONTRAST Control to the maximum and BRIGHT Control to the center.
4. Set the COLOUR Control to the minimum.
5. Select the "SUB" symbol ( **F** +  (Item UP), **F** +  (Item DN)) and adjust the level to the center by LEVEL key of RMT H.H.U. and leave the TV for five minutes in this state.
6. Watching the picture well, adjust the SUB-BRIGHT Control in the position (same method as in step No.5) where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
7. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
8. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT Control again for the acceptable picture.
9. Exit from the "SERVICE MODE" by turning the power ON/OFF with the RMT H.H.U.

## ADDITION OF Adjustments: 2805DBT and 2505DBT

### ADJUSTMENT METHOD FOR SERVICING

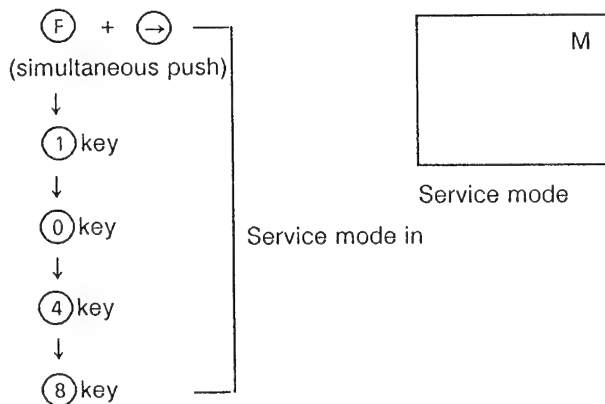
#### 1. OUTLINE

Since each IC used is of I<sup>2</sup>C bus control type, readjustment of the TVs also needs adjustment through I<sup>2</sup>C bus control.

In the service mode, sub-bright, deflection system sub-adjustments, picture system sub-adjustments can be made easily with user remote control unit.

#### 2. SERVICE MODE OPERATION

##### 2-1. How to Enter the Service Mode



##### 2-2. How to Exit from the Service Mode

Exit the service mode by turning the power on/off with the remote control.

#### 3. ADJUSTMENT IN THE SERVICE MODE

##### 3-1. Service Mode Level Adjustments

- (1) Push (F) + (■) key (simultaneous push) (item UP) or (F) + (♪) key (simultaneous push) (item DN) to select item to be adjusted.
- (2) Adjust with the level UP/DN (VOL UP/DN key) key.

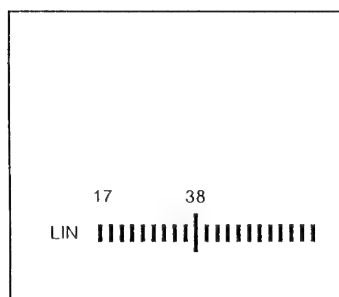
##### 3-2. Other Service Mode Adjustments

- (F) + (1) key (simultaneous push) Bus Line: OFF 60 ms
- (F) + (2) key (simultaneous push) cut off: (NO VERTICAL DEFLECTION) ON/OFF
- (F) + (3) key (simultaneous push) SECAM V-indent: ON/OFF

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#### 4. SERVICE MODE LEVEL ADJUSTMENT ITEM LIST

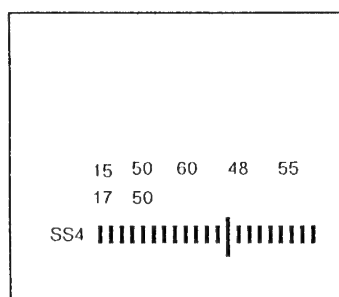
Symbol	RAM No.	Controlled IC	Item
SUB	06	MULTI-COL (TA8783N)	SUB BRIGHT
HIT	16	E/W (TA8739P)	SUB HEIGHT
LIN	17	E/W (TA8739P)	V-LINEARITY
VSC	18	E/W (TA8739P)	V-S CORRECTION
VPS	19	E/W (TA8739P)	V-SHIFT
VCP	20	E/W (TA8739P)	V-COMPENSATION
WID	21	E/W (TA8739P)	SUB PICTURE WIDTH
DPC	22	E/W (TA8739P)	E-W PARABOLA
CNR	23	E/W (TA8739P)	E-W CORNER
KEY	24	E/W (TA8739P)	TRAPEZIUM
HCP	25	E/W (TA8739P)	H-COMPENSATION
VMC	26	E/W (TA8739P)	V-f CORRECTION
HPS	30	MULTI-COL (TA8783N)	SUB H-POSITION
STI	31	MULTI-COL (TA8783N)	SUB HINT
SCN	32	MULTI-COL (TA8783N)	SUB CONT
SCL	33	MULTI-COL (TA8783N)	SUB COL
SL4	34	PIC-ENHA (CXP1420P)	SLICE LEVEL 4.43
F04	35	PIC-ENHA (CXP1420P)	SHARPNESS F0 4.43
WT4	36	PIC-ENHA (CXP1420P)	WEIGHTING 4.43
SL3	37	PIC-ENHA (CXP1420P)	SLICE LEVEL 3.58
F03	38	PIC-ENHA (CXP1420P)	SHARPNESS F0 3.58
WT3	39	PIC-ENHA (CXP1420P)	WEIGHTING 3.58
SS4	40	PIC-ENHA (CXP1420P)	SUB SHARPNESS CENTER 4.43
SS3	41	PIC-ENHA (CXP1420P)	SUB SHARPNESS CENTER 3.58
MI4	42	PIC-ENHA (CXP1420P)	SUB SHARPNESS MIN 4.43
MX4	43	PIC-ENHA (CXP1420P)	SUB SHARPNESS MAX 4.43
MI3	44	PIC-ENHA (CXP1420P)	SUB SHARPNESS MIN 3.53
MX3	45	PIC-ENHA (CXP1420P)	SHARPNESS MAX 3.53
SBM	46	MULTI-COL (TA8783N)	SUB BRIGHT MINIMUM OFFSET
SCM	47	MULTI-COL (TA8783N)	SUB CONT MINIMUM



17... RAM no. (Item)  
38... Level

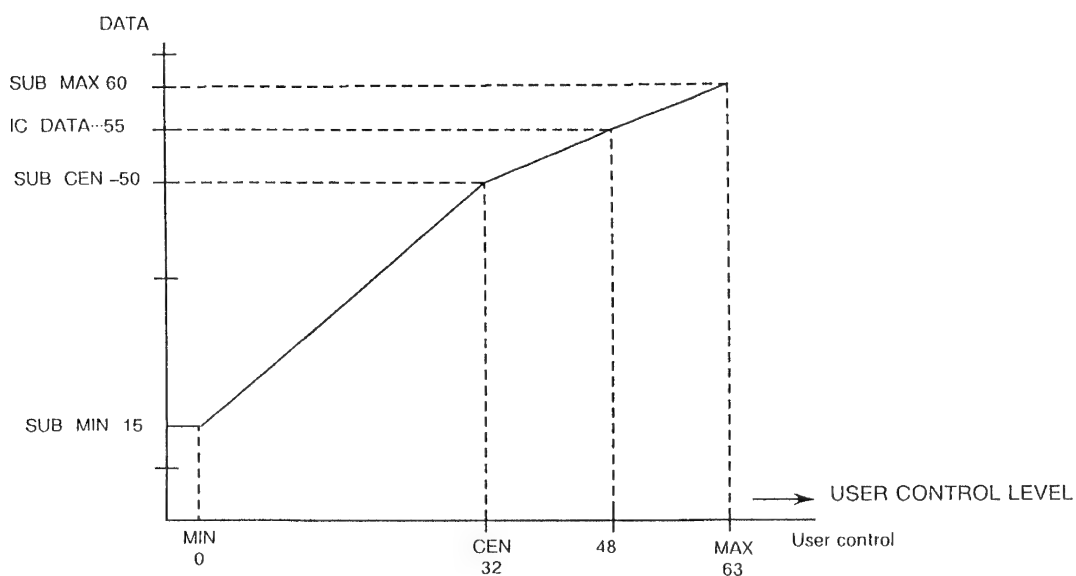
Example of screen display in level adjustment

Relation between the screen cursor and control data is not linear for some items. Some examples are shown below.

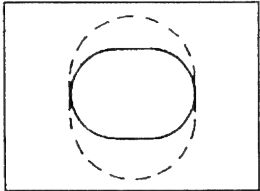
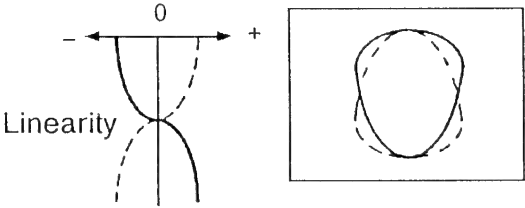
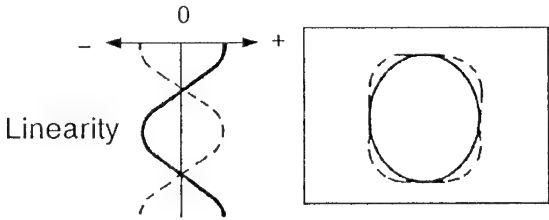


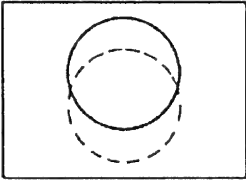
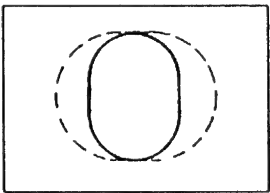
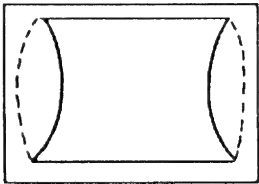
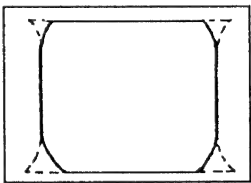
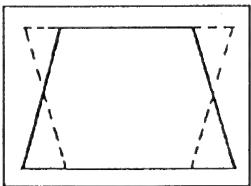
15... Subdata (minimum value)  
50... Subdata (center value)  
60... Subdata (maximum value)  
48... User control level  
55... For IC data calculated form subdata and  
User control level  
17... RAM no. (Item)  
50... Subdata

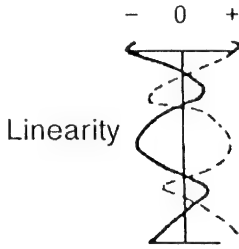
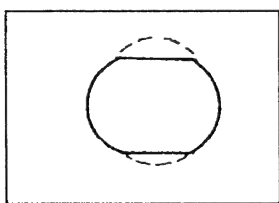
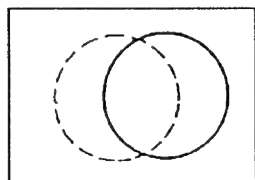
Example of screen display in the level adjustment mode



## 5. SUB DATA ADDITIONAL DESCRIPTION

RAM No.	Symbol	Description
06	SUB	Sub brightness setting
16	HIT	V amplitude adjustment. 
17	LIN	V linearity correction 1.  Linearity balance between top and bottom screen.
18	VSC	V linearity correction 2.  Linearity balance between top/bottom and center.

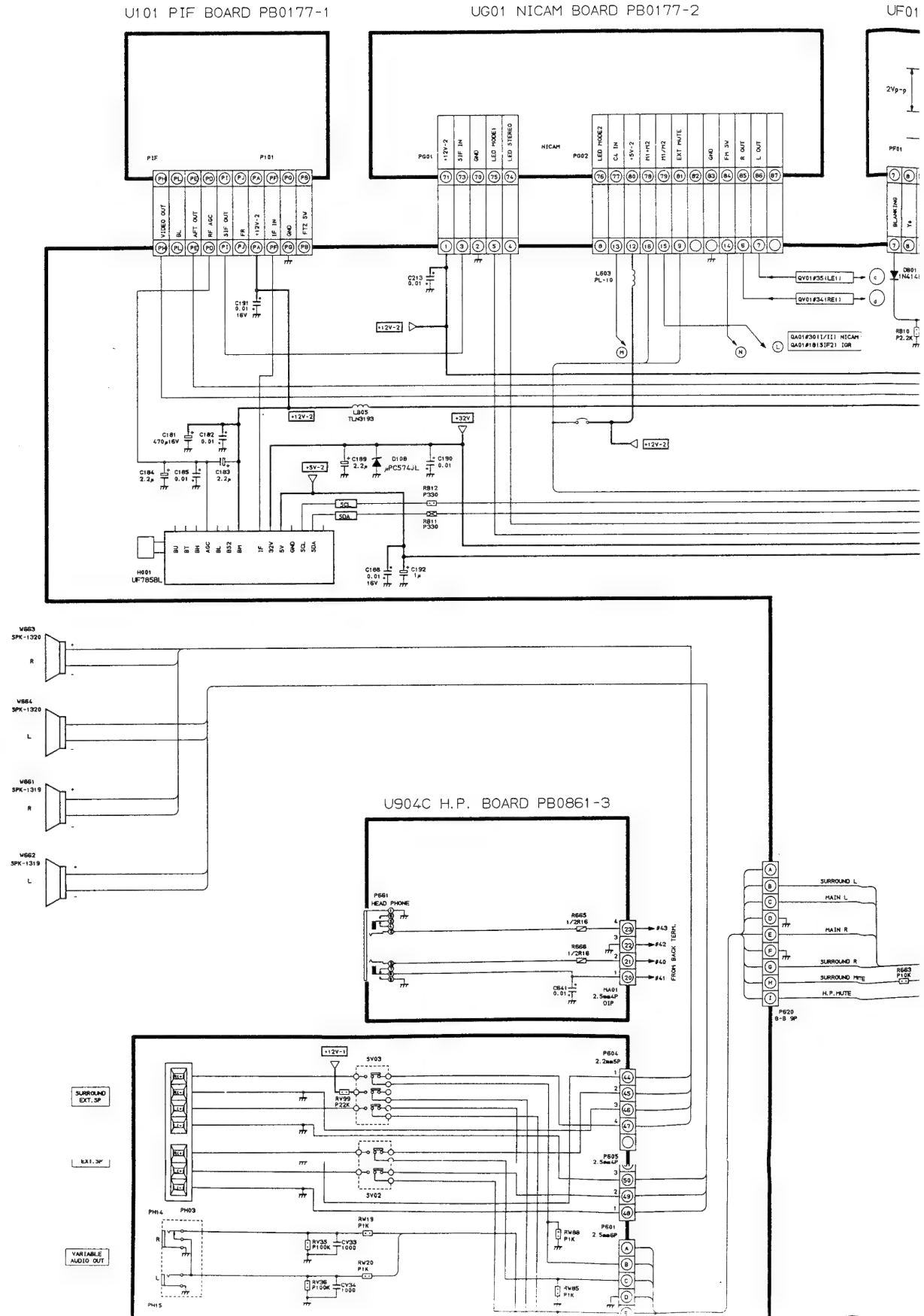
RAM No.	Symbol	Description
19	VPS	V picture position adjustment. 
20	VCP	Setting of amount of V amplitude correction against variation of screen brightness.
21	WID	H amplitude adjustment. 
22	DPC	H pin-cushion distortion correction. 
23	CNR	H pin-cushion distortion correction at four corners. 
24	KEY	Pedestal distortion correction. 

RAM No.	Symbol	Description
25	HCP	Setting of amount of H amplitude correction against variation of screen brightness.
26	VMC	<p>V linearity correction. Linearity balance at 1/4, 3/4 areas from top.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 20px;"> <p>- 0 +</p>  <p>Linearity</p> </div> <div style="text-align: center;">  </div> </div>
30	HPS	<p>H screen position correction.</p> <div style="text-align: center;">  </div>
31	ST1	Sub tint setting.
32	SCN	Sub contrast setting.
33	SCL	Sub color setting
34	SL4	Setting of amount of coring with N.R. (Noise Reduction) turned on. Color carrier 4.43
35	F04	Selection of peaking frequency. Color carrier 4.43
36	WT4	Balance adjustment for amount of pre & overshoot. Color carrier 4.43
37	SL3	Same as SL4. Color carrier 3.58
38	F03	Same as F04. Color carrier 3.58
39	WT3	Same as WT4. Color carrier 3.58

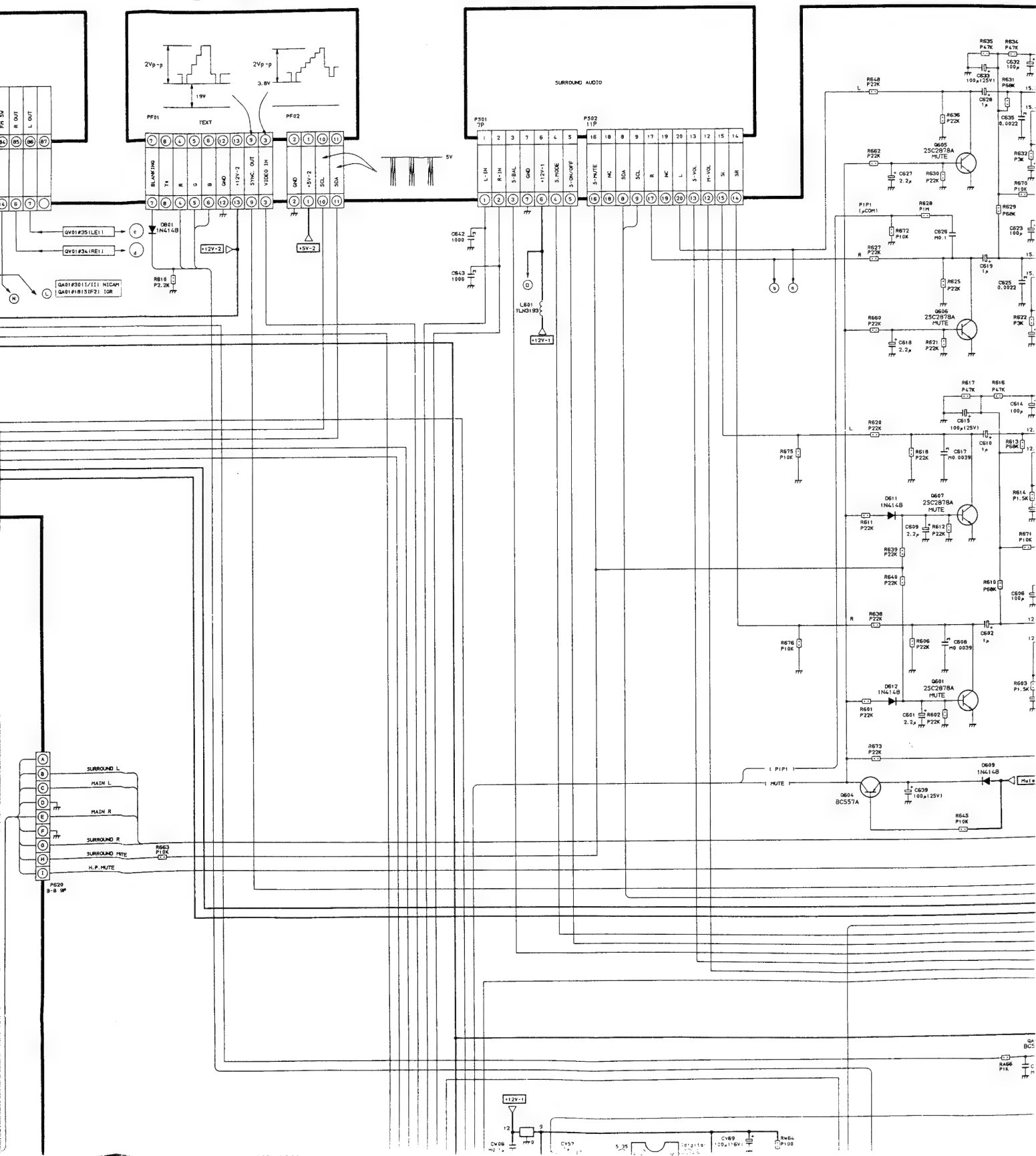


# 2505DBT

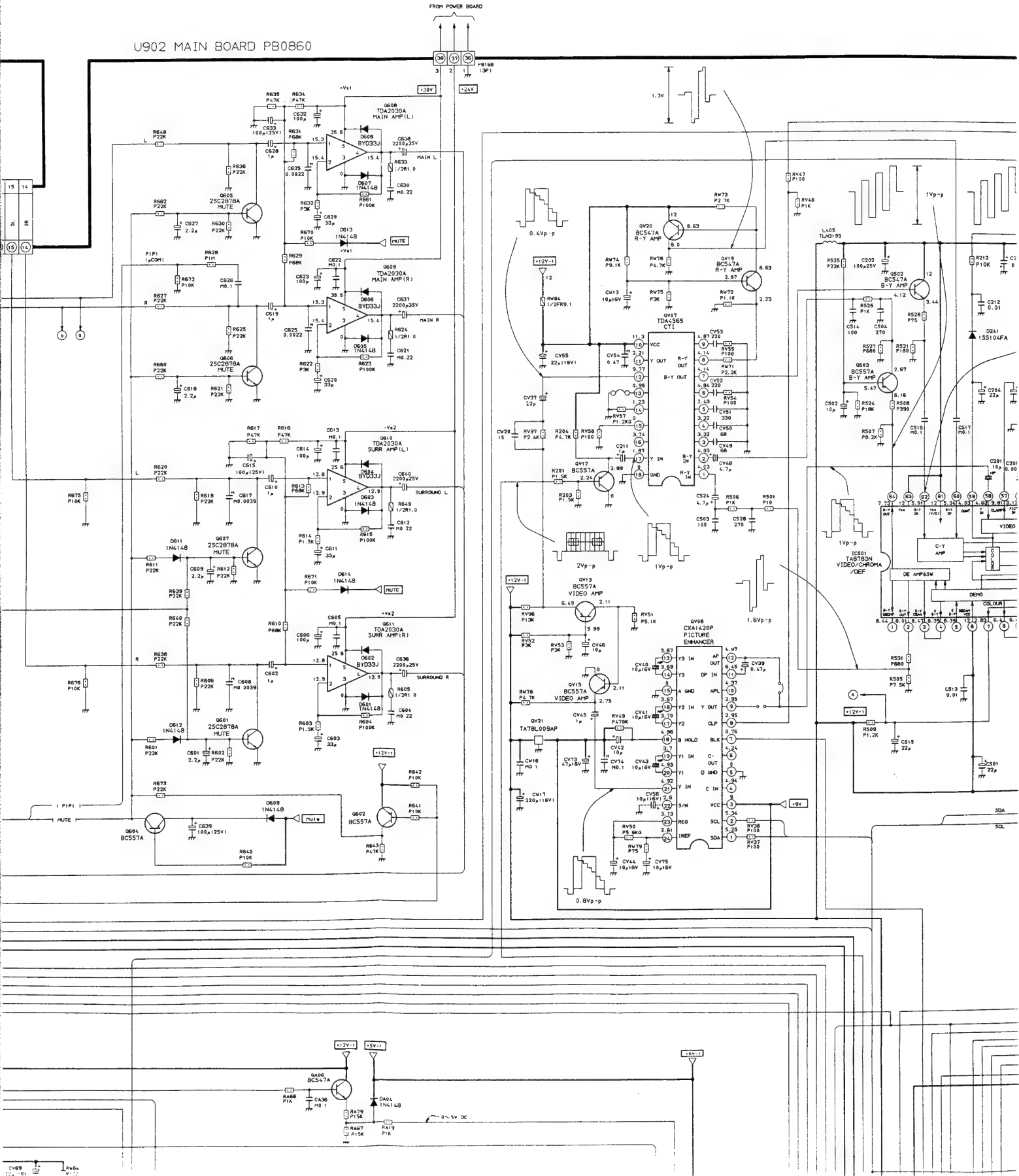
## SCHEMATIC DIAGRAM (1/1)

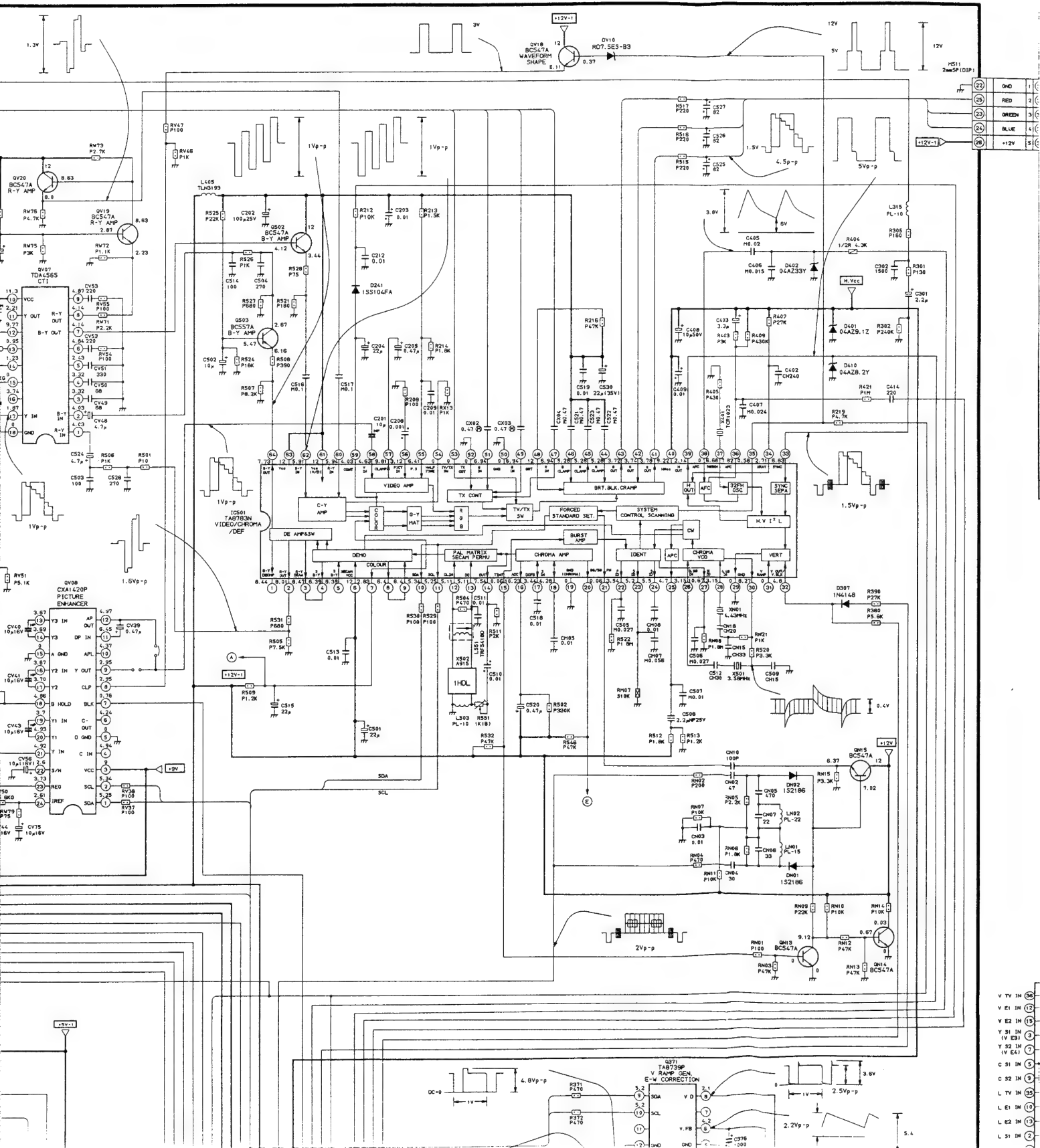


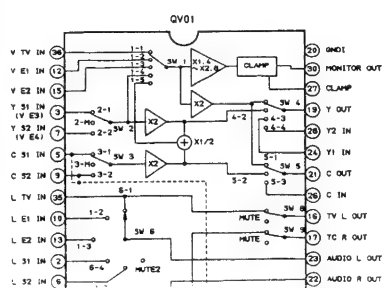
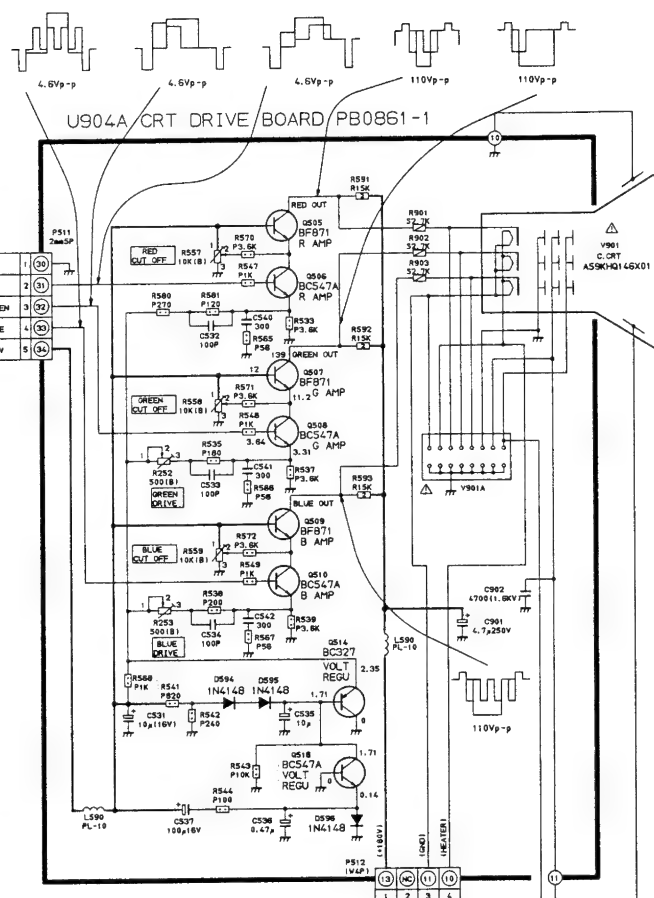
## U902 MAIN BOARD PB0860



# U902 MAIN BOARD PB0860







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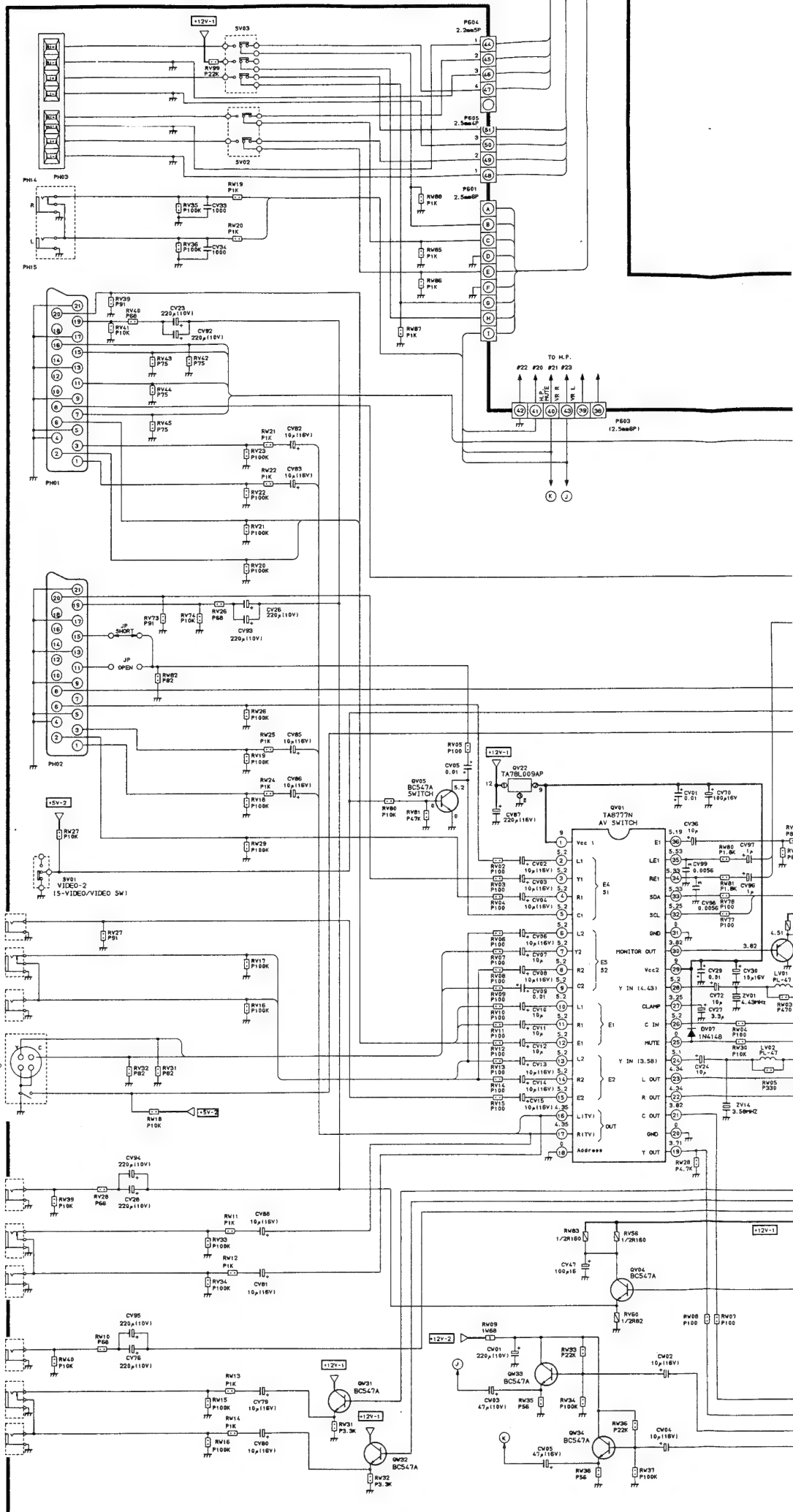
21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH
16	RAPID BLANKING
15	RED IN
14	NC
13	RED EARTH
12	NC
11	GREEN IN
10	NC
9	GREEN EARTH
8	EXT./TV
7	BLUE IN
6	AUDIO IN(L)
5	EARTH
4	AUDIO EARTH
3	AUDIO OUT(L)
2	AUDIO IN(R)
1	AUDIO OUT(R)

E2

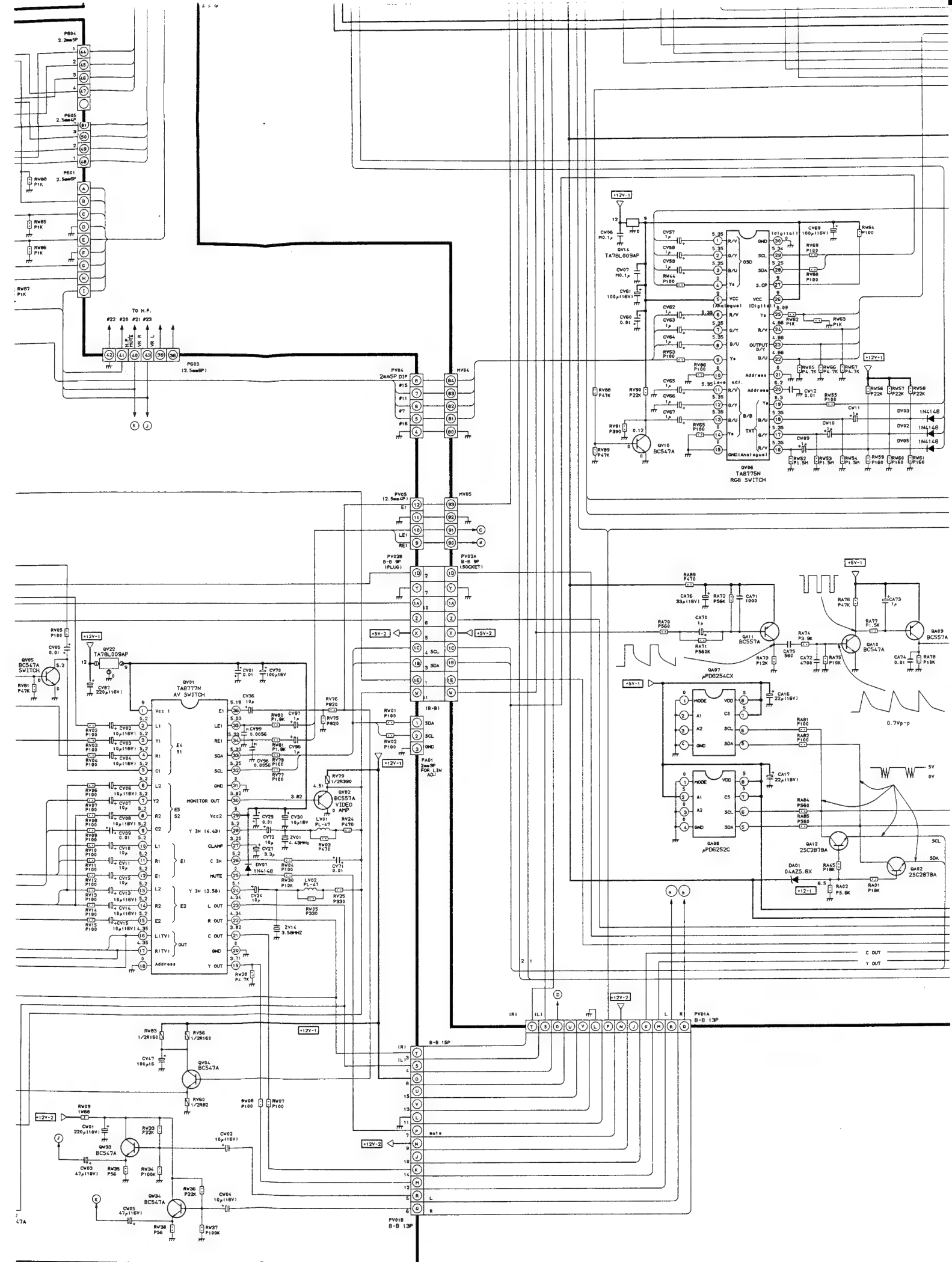
E3

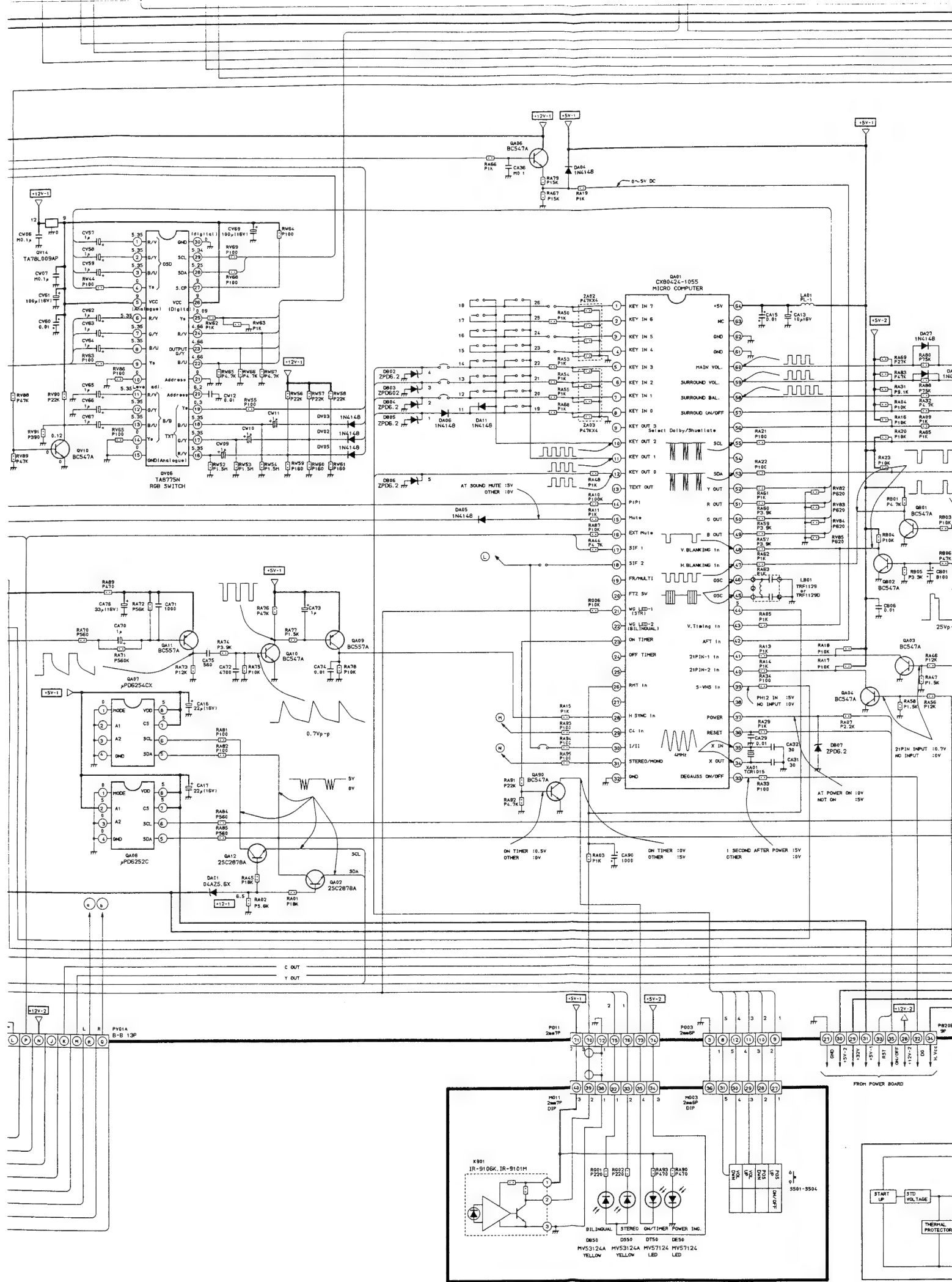
TV OUT

MONITOR OUT



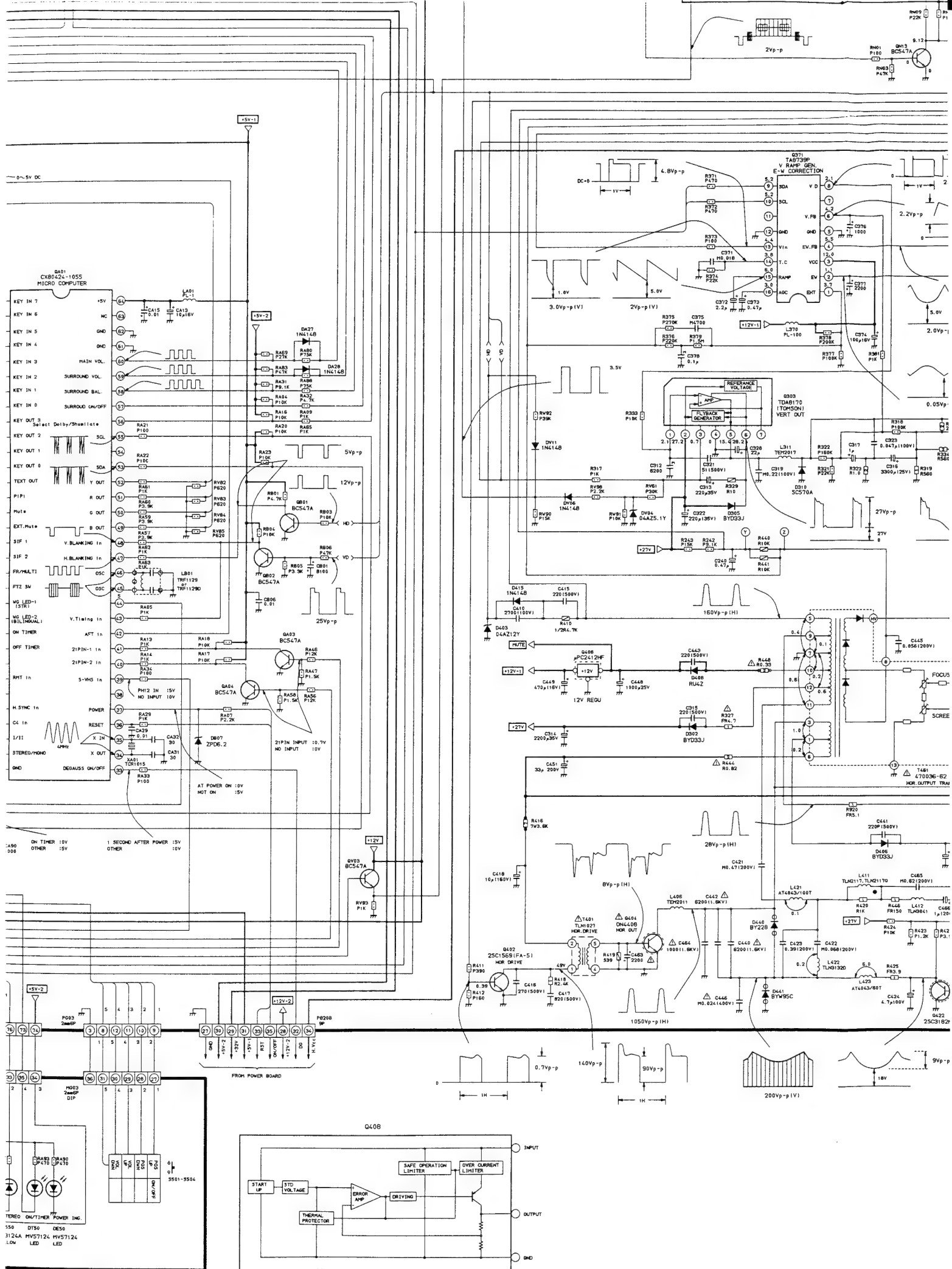
U903B BACK TERM. BOARD PB0179-2

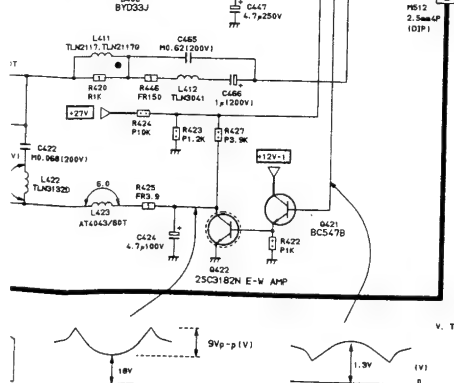
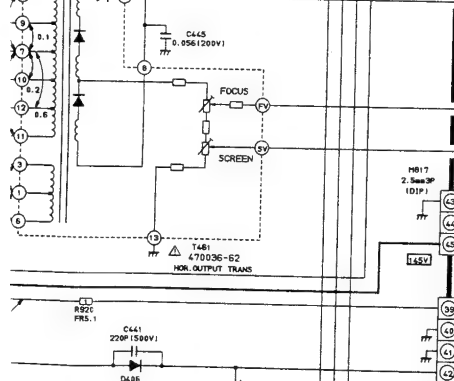
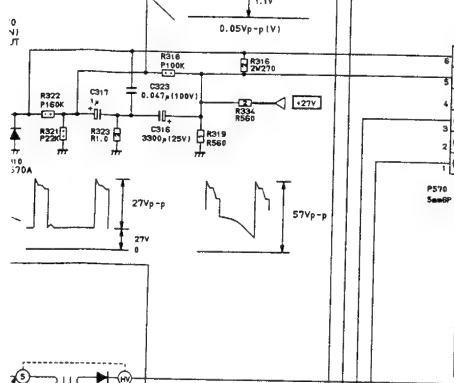
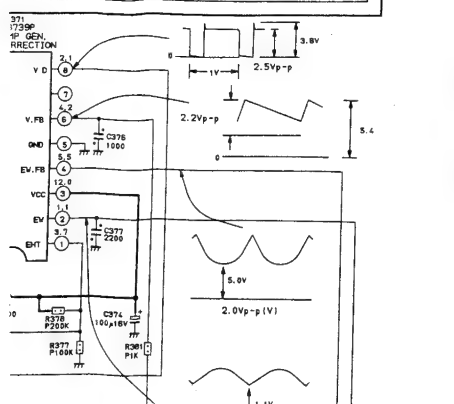
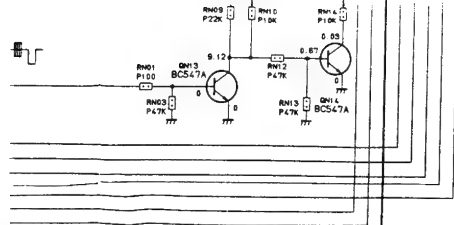




U904E CONT BOARD PB0861-2







# 2505DBT

## SCHEMATIC DIAGRAM (2/2)

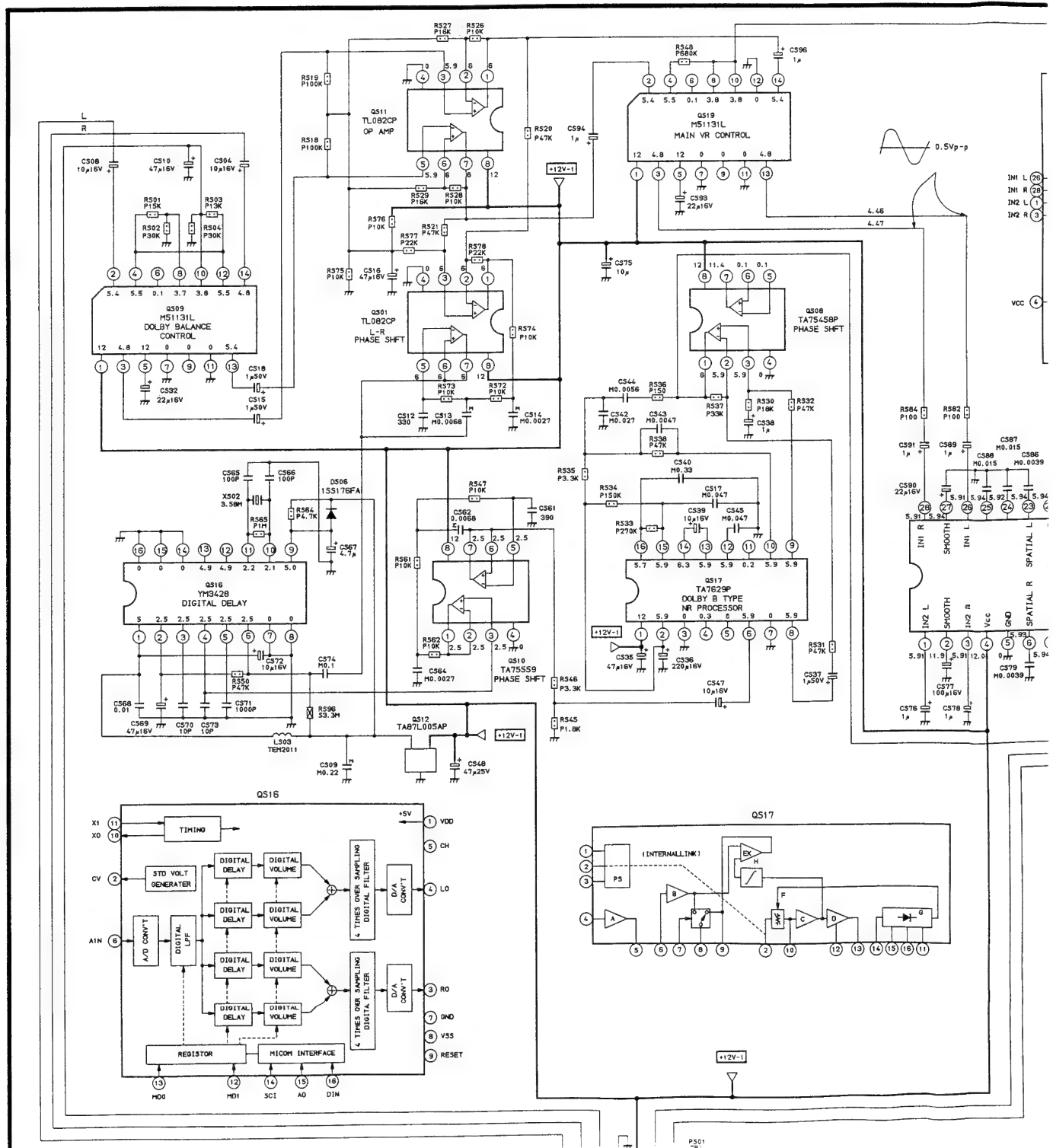
For Service Manuals  
**MAURITRON SERVICES**  
 8 Cherry Tree Road, Chinnor  
 Oxfordshire, OX9 4QY.  
 Tel (01844) 351694  
 Fax (01844) 352554  
 email:- sales@mauritron.co.uk

### IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must be of approved type and must be mounted as the original. This will ensure that the safety of the product will be maintained following any

### OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance dig
2. (—) or ground lead of instruments should be connected to schematic on checking Non-isolated circuit surrounded by to the points marked (  $\pi$  ) on checking isolated circuit.
3. The voltage readings may vary as much as  $\pm 20\%$ .
4. Check that the Tuning, A.F.C., Brightness, Contrast and C the best picture, making sure that the Contrast, Brightness near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal wide band oscilloscope via a low capacity probe.



## IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

## OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance digital voltmeter.
2. (—) or ground lead of instruments should be connected to the ground marked (⊥) in the schematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (⊥) on checking isolated circuit.
3. The voltage readings may vary as much as  $\pm 20\%$ .
4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

## NOTES:

1. This circuit di

## EXPRESSION

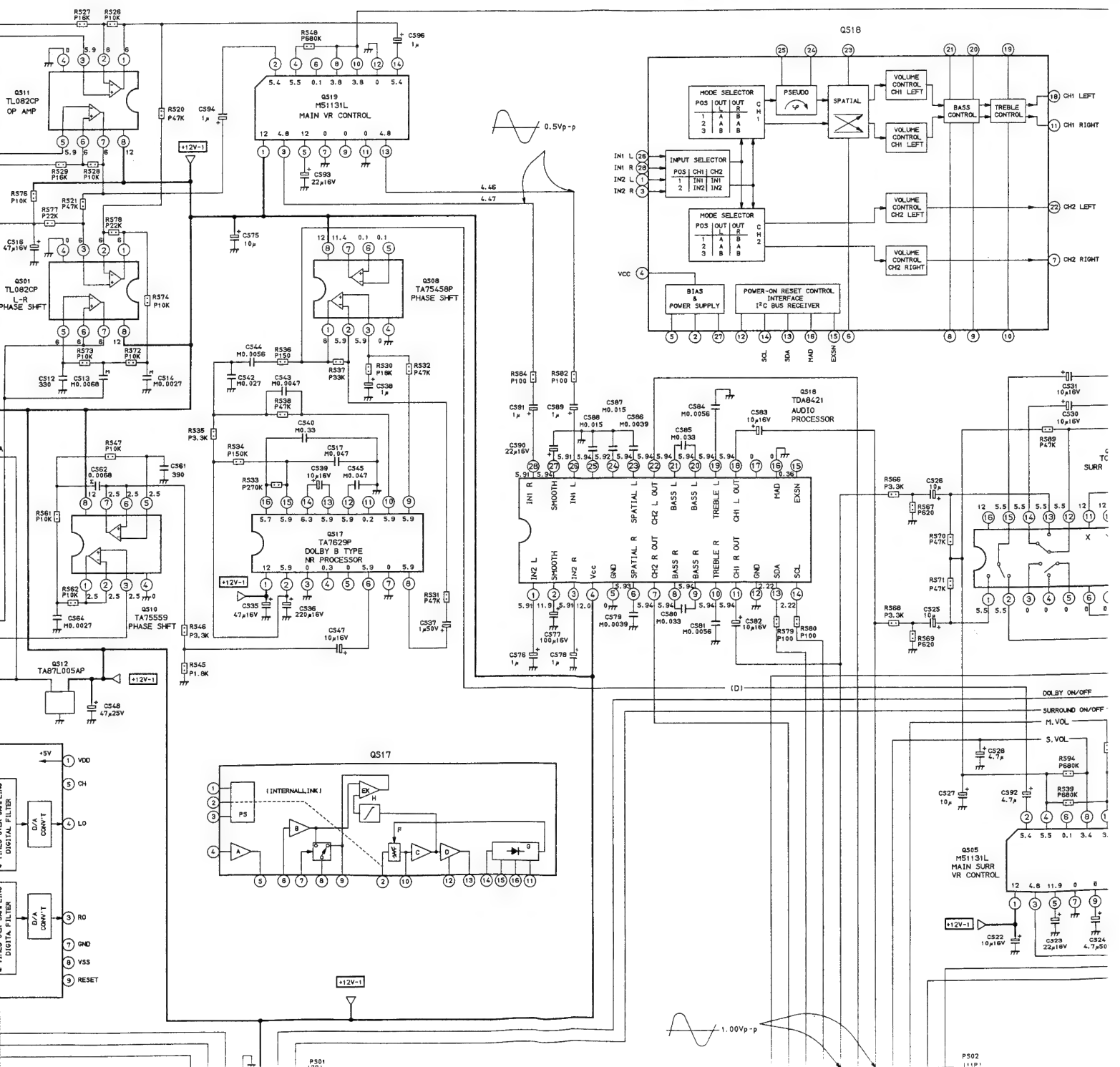
## VALUE OF RESISTO

1. Resistance is show
2. Unless otherwise  $\mu F$  and the values
3. Unless otherwise  $\mu H$ , and the values

## GROUNDING SYMBOL

1. ⊥: Non isolated gro

US01 DOLBY BOARD PB0177-4



if changed, be replaced by an  
 sure that the safety standards  
 servicing procedure.

ital voltmeter.  
 the ground marked (⊥) in the  
 mark but should be connected

colour controls are adjusted for  
 ss and Colour controls are set  
 gnal and were observed using a

## NOTES:

1. This circuit diagram is subject to change without notice.

## EXPRESSION

### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu\text{H}$ , and the values less than 1 in H.

### GROUNDING SYMBOL

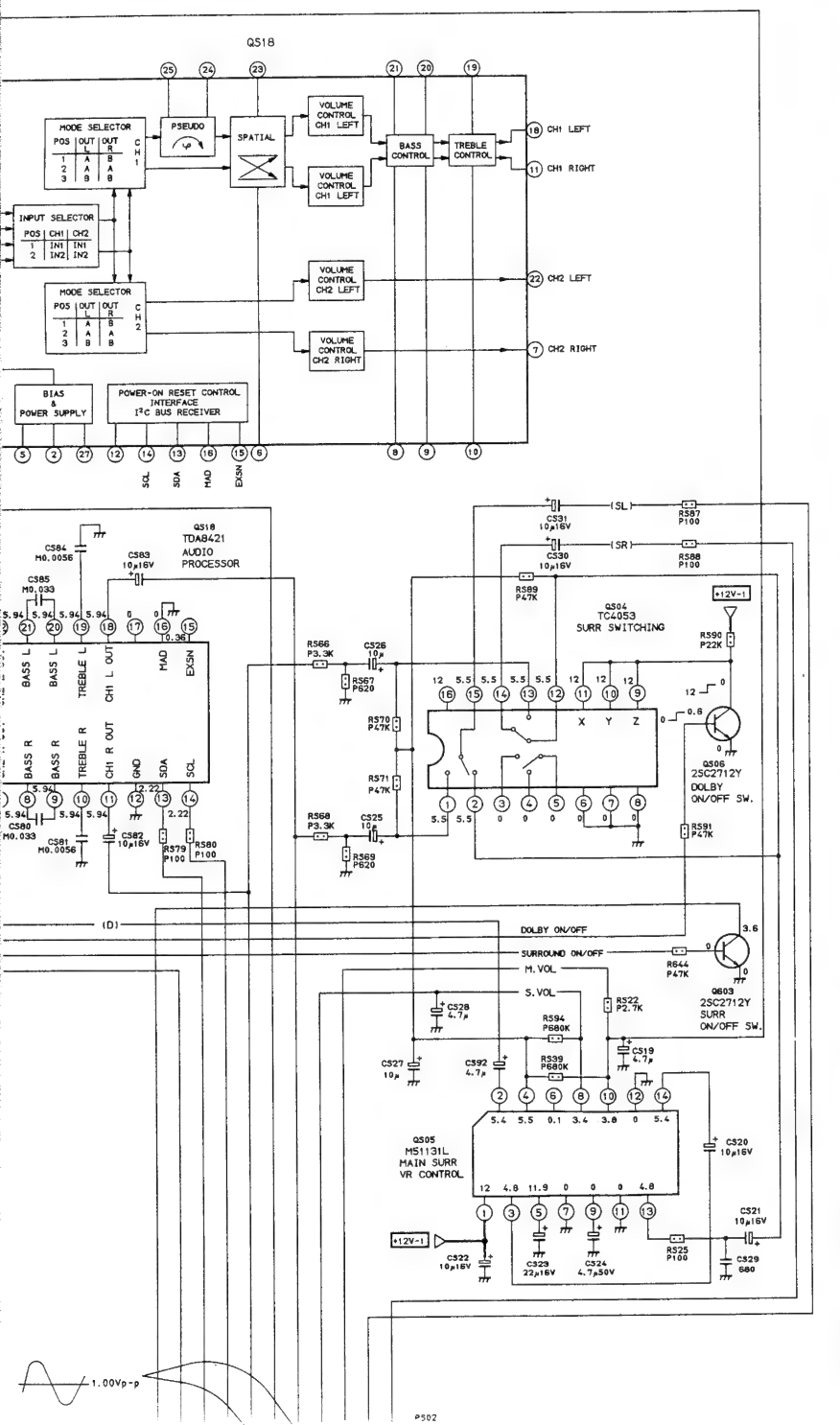
1.  $\perp$ : Non isolated ground,  $\text{---}\text{||}\text{---}$ : Isolated ground.

## RESISTOR

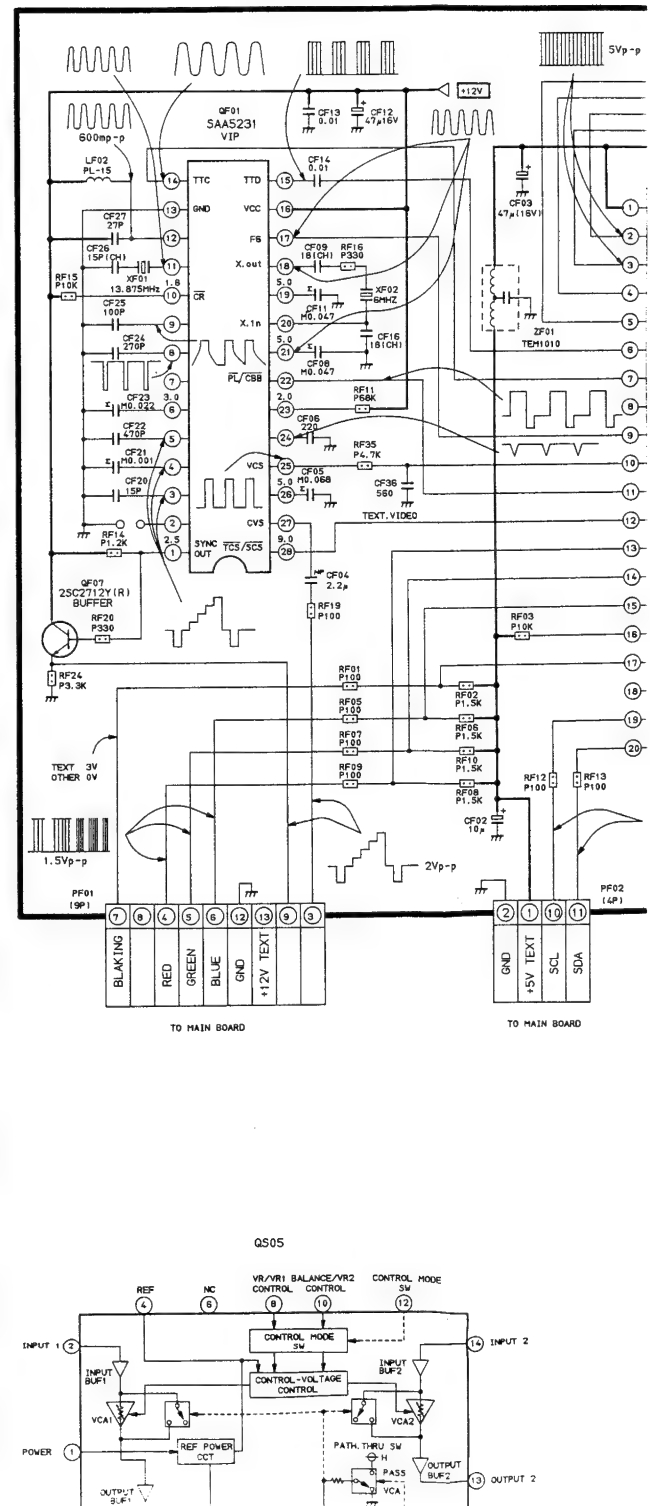
Prefixed to v:

TY
Carbor
Oxide M
Ins. Car
Wire
Cement cc
Fusib

501 DOLBY BOARD PB0177-4



UF01 TEXT BOARD PB0177-3



ut notice.

OR

0.

or values less than 1 are expressed in

or values more than 1 are expressed in

## RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

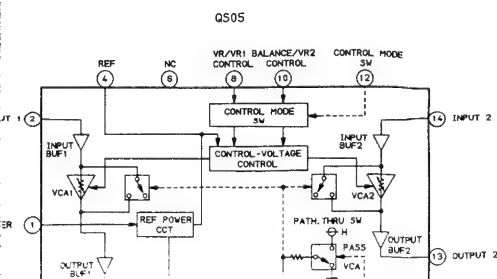
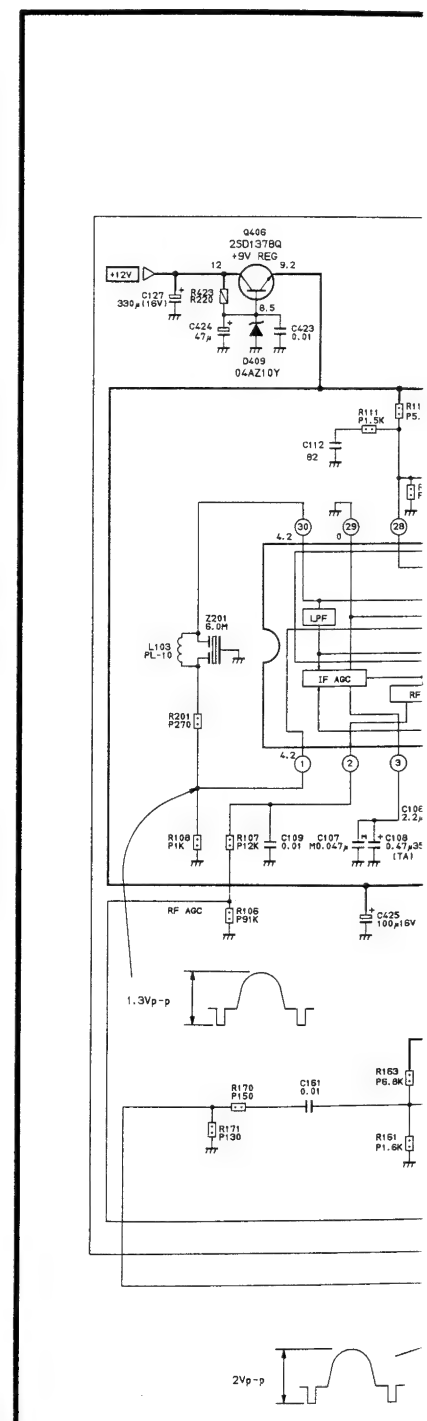
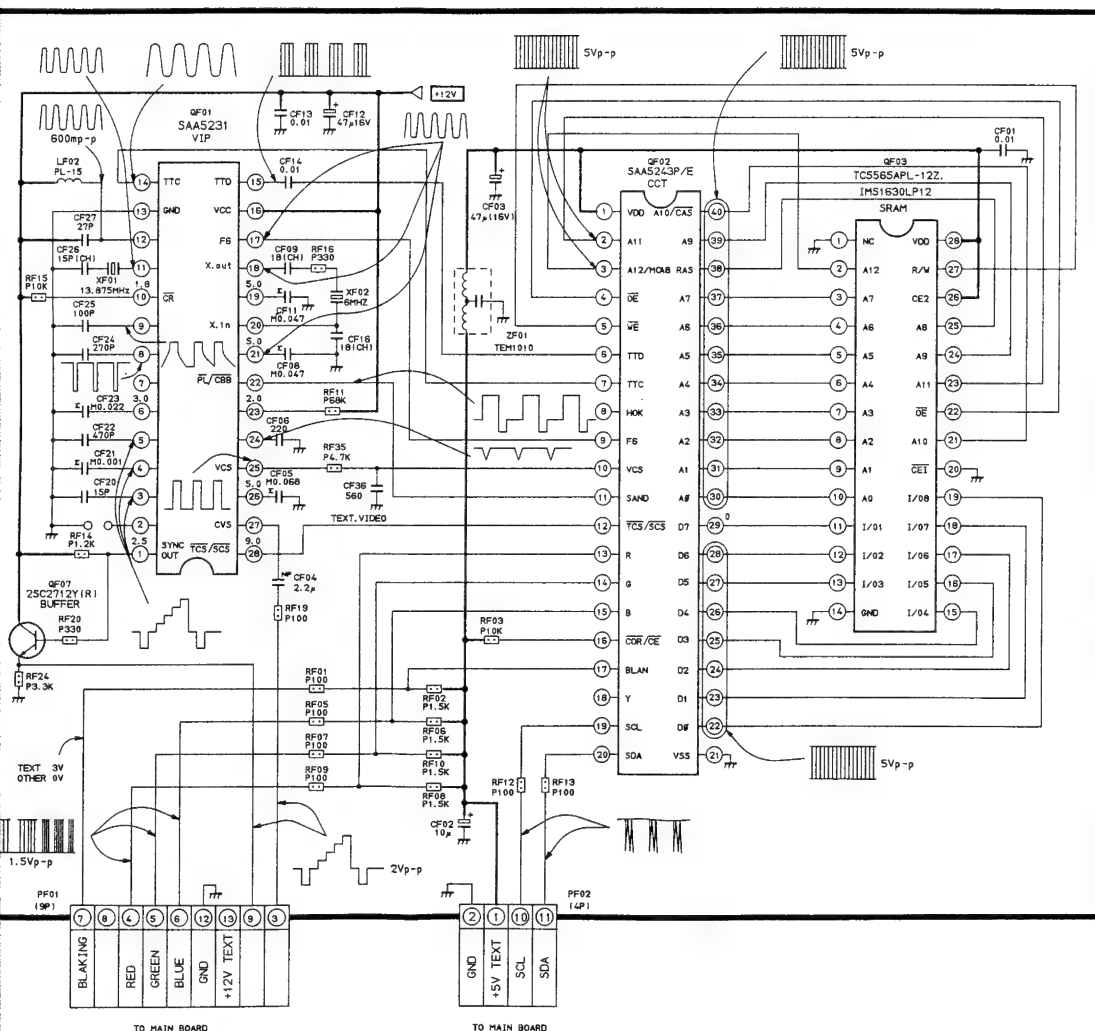
TOLERANCE	MARK
$\pm 1\%$	(F)
$\pm 2\%$	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

UF01 TEXT BOARD PB0177-3

U101 PI



# CAPACITORS

## Rating Markings:

Typ
Ceramic Disc
Electro
Electro Non-P
Variable C.
Other

## Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

## Suffixes to VR values:

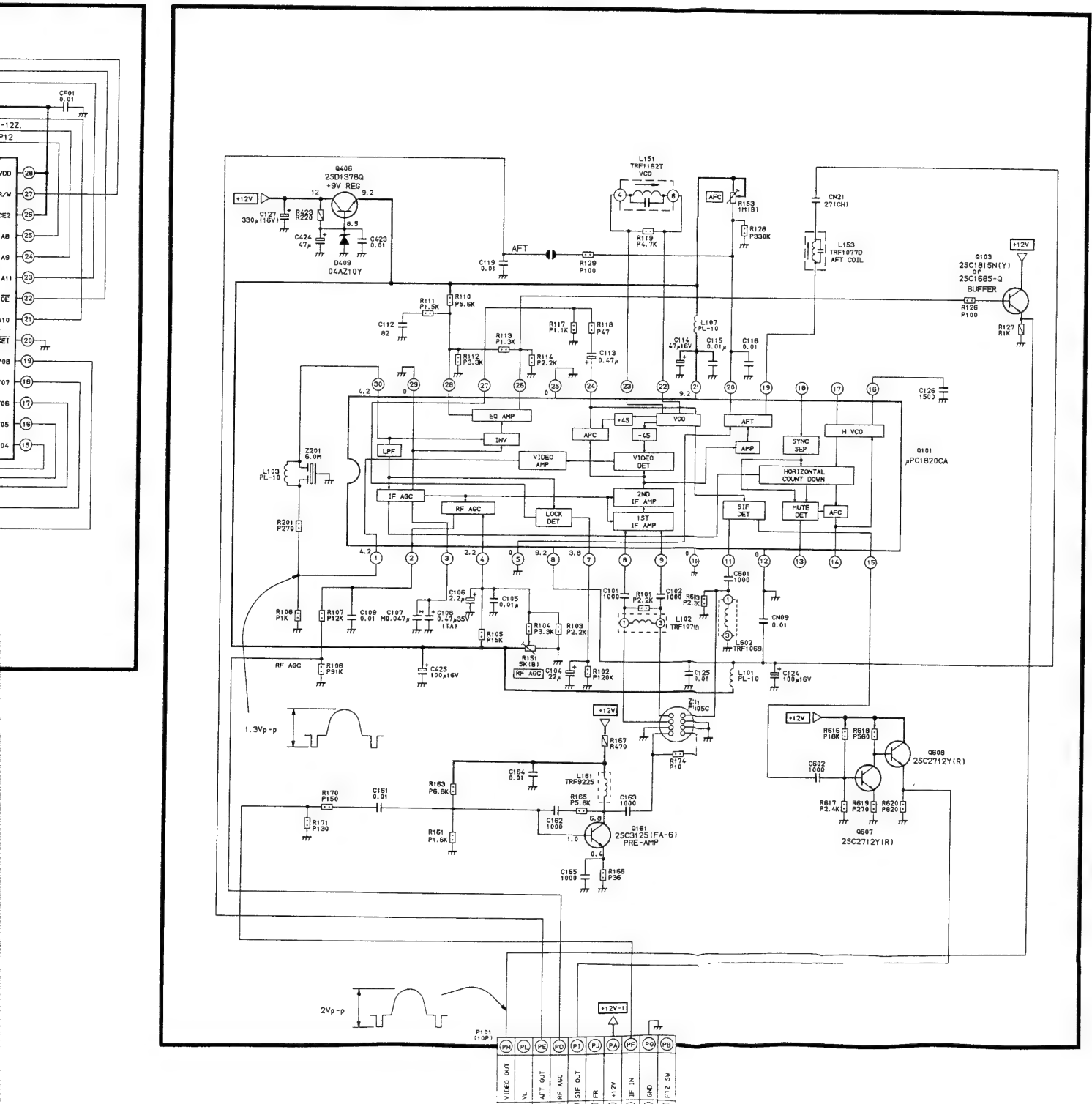
LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

## Rating Markings:

WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	
2W	






WATTAGE	MARK
3W	
5W	
10W	
15W	
20W	
25W	

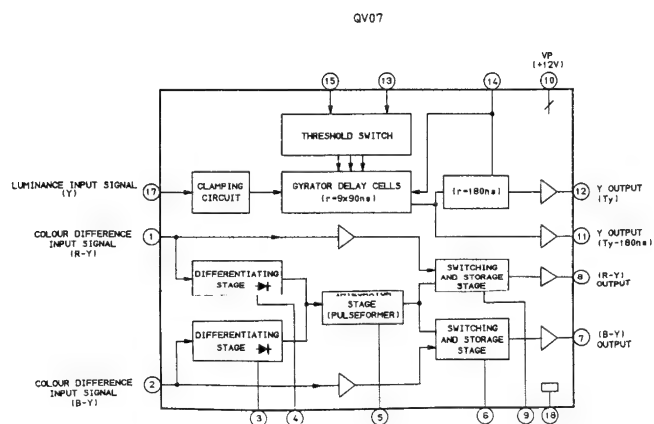
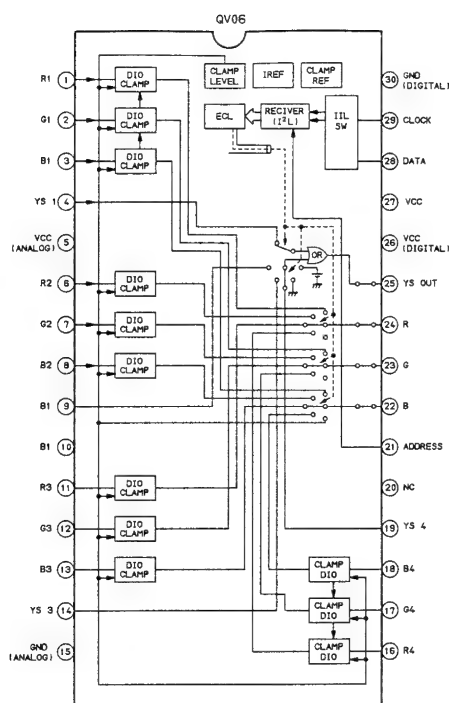
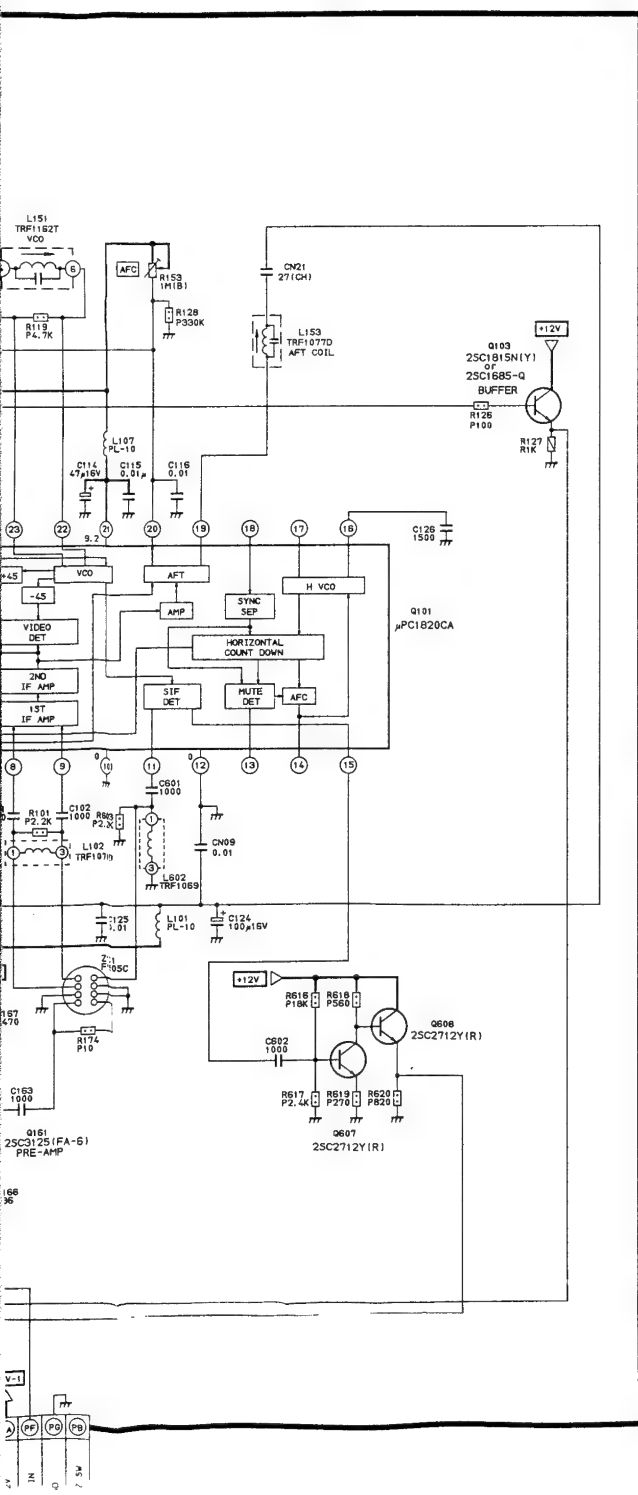
U101 PIF BOARD PB0177-1



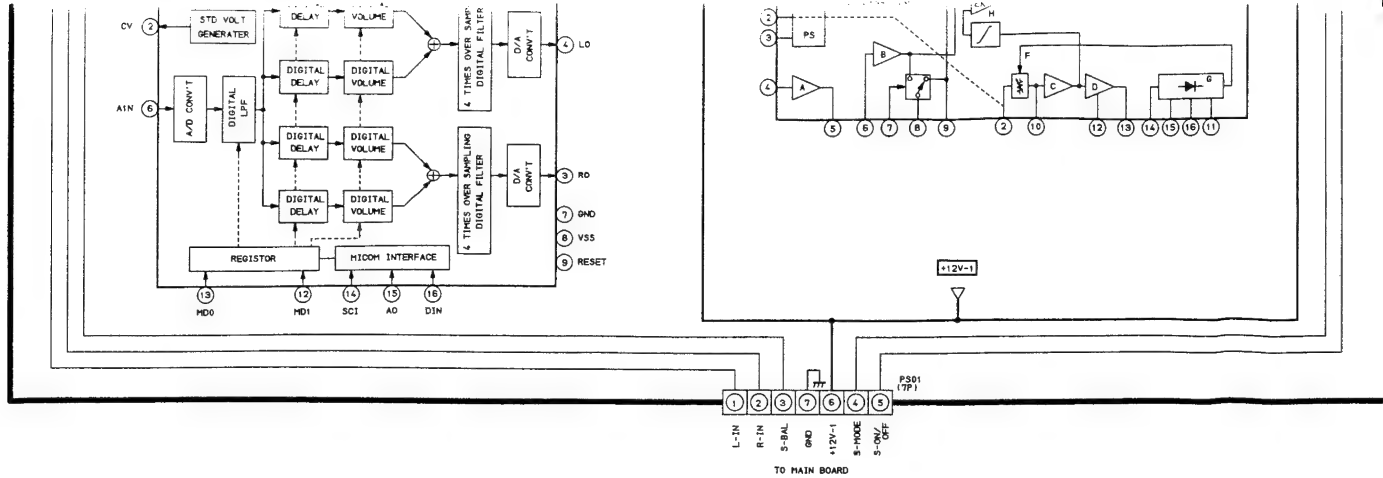
## 1

WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

Type	Mark
Ceramic Disc 50V Only	
Electrolytic	
Electrolytic Non-Polar	
Variable Capacitor	
Other	







U903A POWER BOARD PB0179-1

